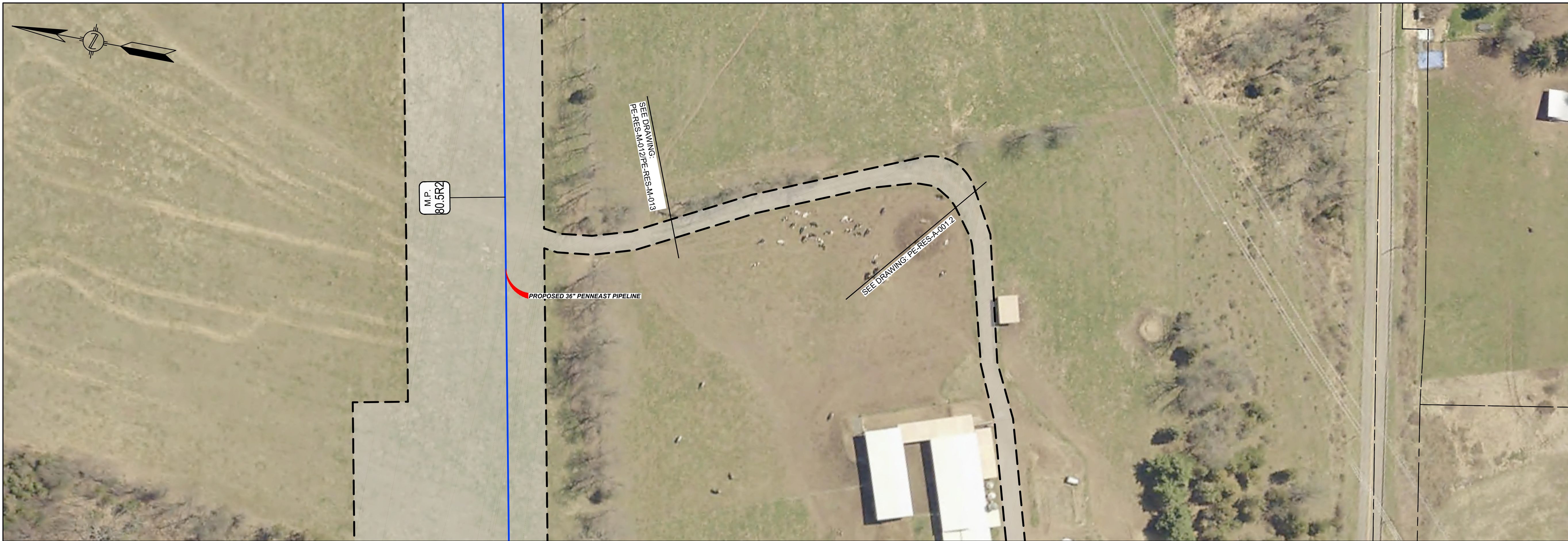
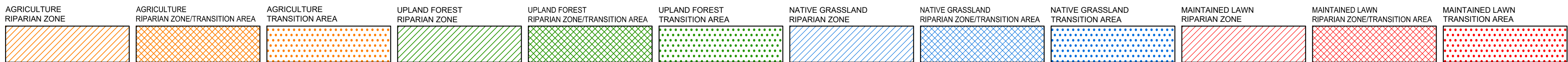


RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



LEGEND	
	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPIARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK - 1 LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG NO. WETLAND FLAG
	SAMPLE STATION
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I
HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN
WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT
SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

08/01/2019
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I
HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL
DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND
WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

08/01/2019
SIGNATURE DATE

NOTES:

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- PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
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- RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		NO.		REVISIONS				
DWG. NO.	TITLE	NO.		REVISIONS	DATE	DRAWN	CK	APPR
000-03-03-059	* ACCESS ROAD DETAIL	0		ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

REVISIONS						
NO	REVISIONS	DATE	DRAWN	CK	APPR	
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

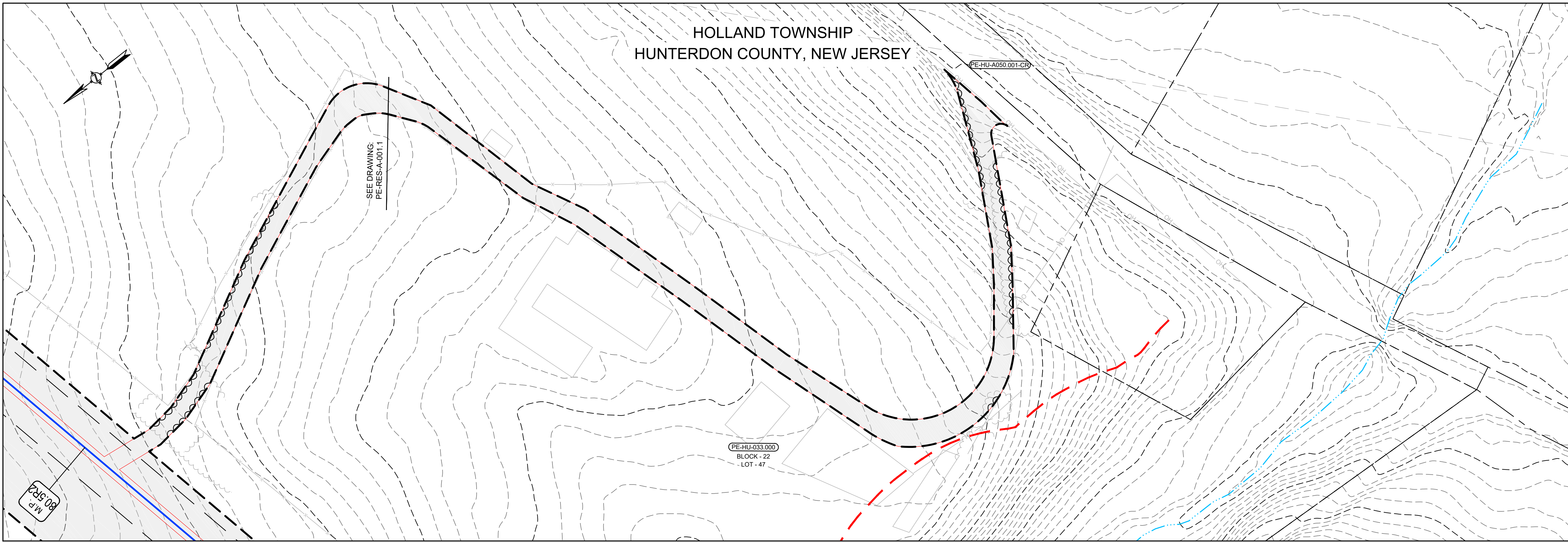
APPROVALS	
CLIENT APPROVAL	DATE
	7/2019

PREPARED FOR

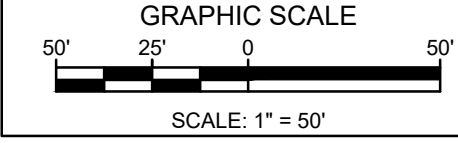
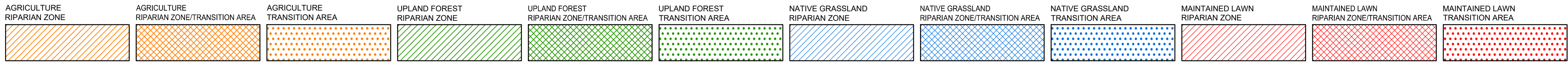
PREPARED BY

M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-080AN		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-001.1	0



RIPIARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- EXISTING CULVERT
 - CPP CORRUGATED PLASTIC PIPE
 - CMP CORRUGATED METAL PIPE
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - RCP REINFORCED CONCRETE PIPE
 - UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION SOW FLAG NO. SAMPLE STATION
- STATE OPEN WATER FLAG PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

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REFERENCE DRAWINGS		NO.		REVISIONS			
DWG. NO.	TITLE			REVISIONS	DATE	DRAWN	CK
000-03-03-059	* ACCESS ROAD DETAIL	0		ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK

APPROVALS				APPROVALS			
DRAWN BY	DATE	CHECKED BY	DATE	ENG. APPROVAL	DATE	P.M. APPROVAL	DATE
RJP	7/2019	KEK	7/2019	MJD	7/2019	MW	7/2019

APPROVALS		APPROVALS	
DRAWN BY	DATE	CHECKED BY	DATE
RJP	7/2019	KEK	7/2019

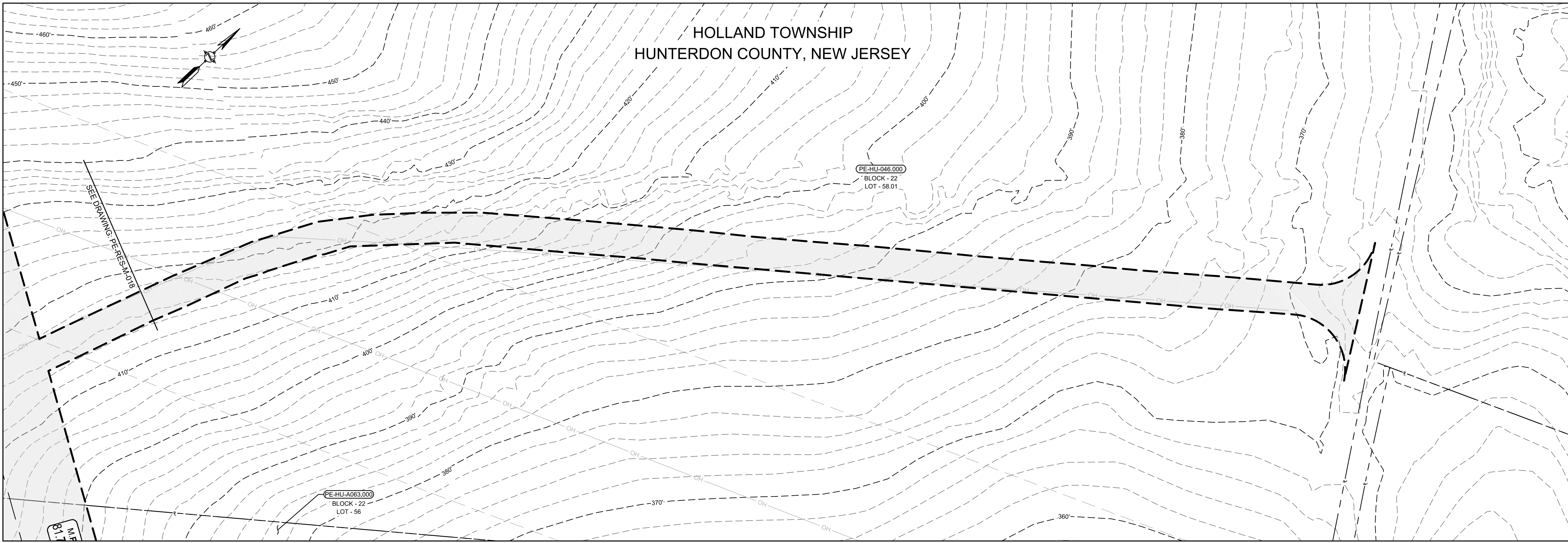
PREPARED FOR

PennEast
PIPELINE

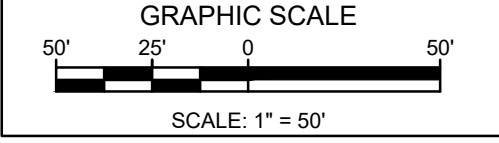
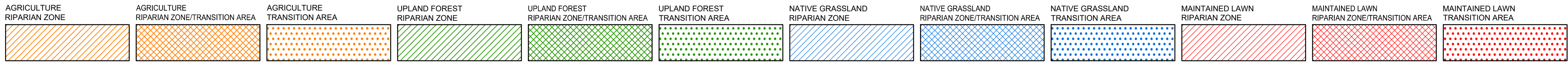
PREPARED BY

MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-080AN		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-001.2	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER (LB-HU-A001.000)
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE (CPP)
- CORRUGATED METAL PIPE (CMP)
- HIGH DENSITY POLYETHYLENE PIPE (HDPE)
- POLYVINYL CHLORIDE PIPE (PVC)
- REINFORCED CONCRETE PIPE (RCP)
- UNKNOWN (UNK)
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE (OH)
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. (WETLAND FLAG)
- SAMPLE STATION (SAMPLE STATION)
- SOW_FLAG_NO. (STATE OPEN WATER FLAG)
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

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REFERENCE DRAWINGS		REVISIONS						APPROVALS	
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
000-03-03-060	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019
								CHECKED BY	DATE
								KEK	7/2019
								ENG. APPROVAL	DATE
								MJD	7/2019
								P.M. APPROVAL	DATE
								MW	7/2019

PREPARED FOR

PennEast
PIPELINE

PREPARED BY **M M**
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

CLIENT APPROVAL

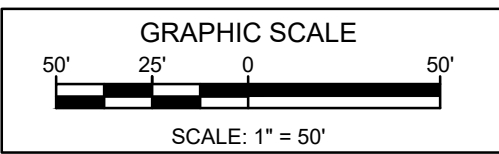
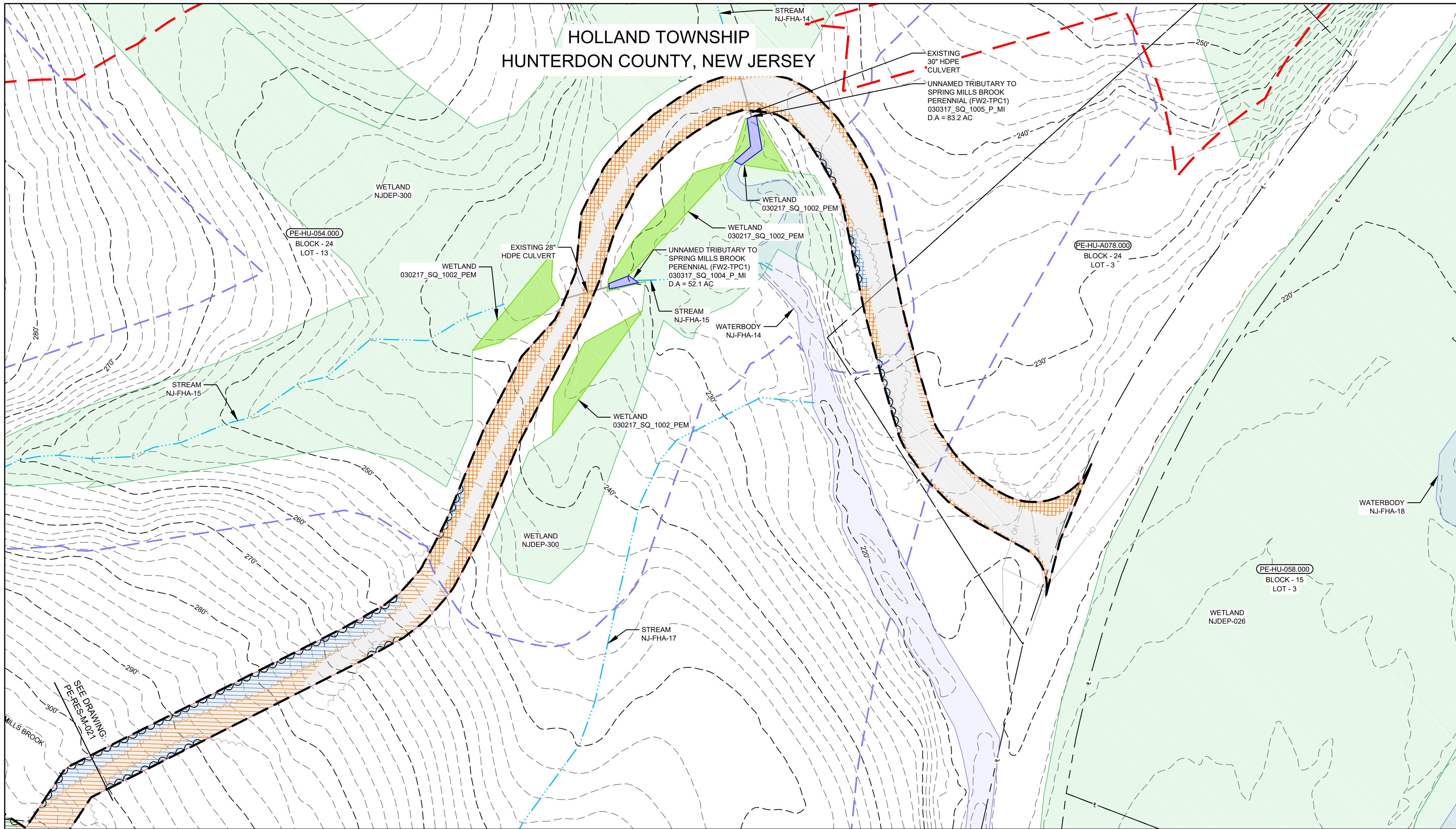
DATE

7/2019

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-083

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-002	0



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
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- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CPP CORROGATED PLASTIC PIPE
- CMP CORROGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION SAMPLE STATION
- SOW_FLAG_NO STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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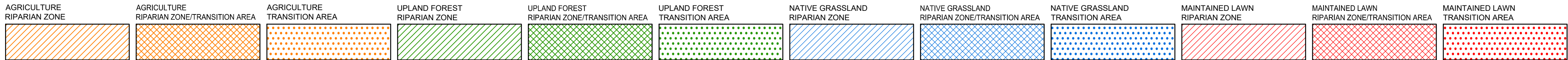
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SIGNATURE DATE

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

RIPIARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	
000-03-03-061	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019	
								CHECKED BY	DATE	
								KEK	7/2019	
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								MW	7/2019	

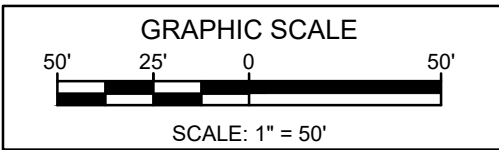
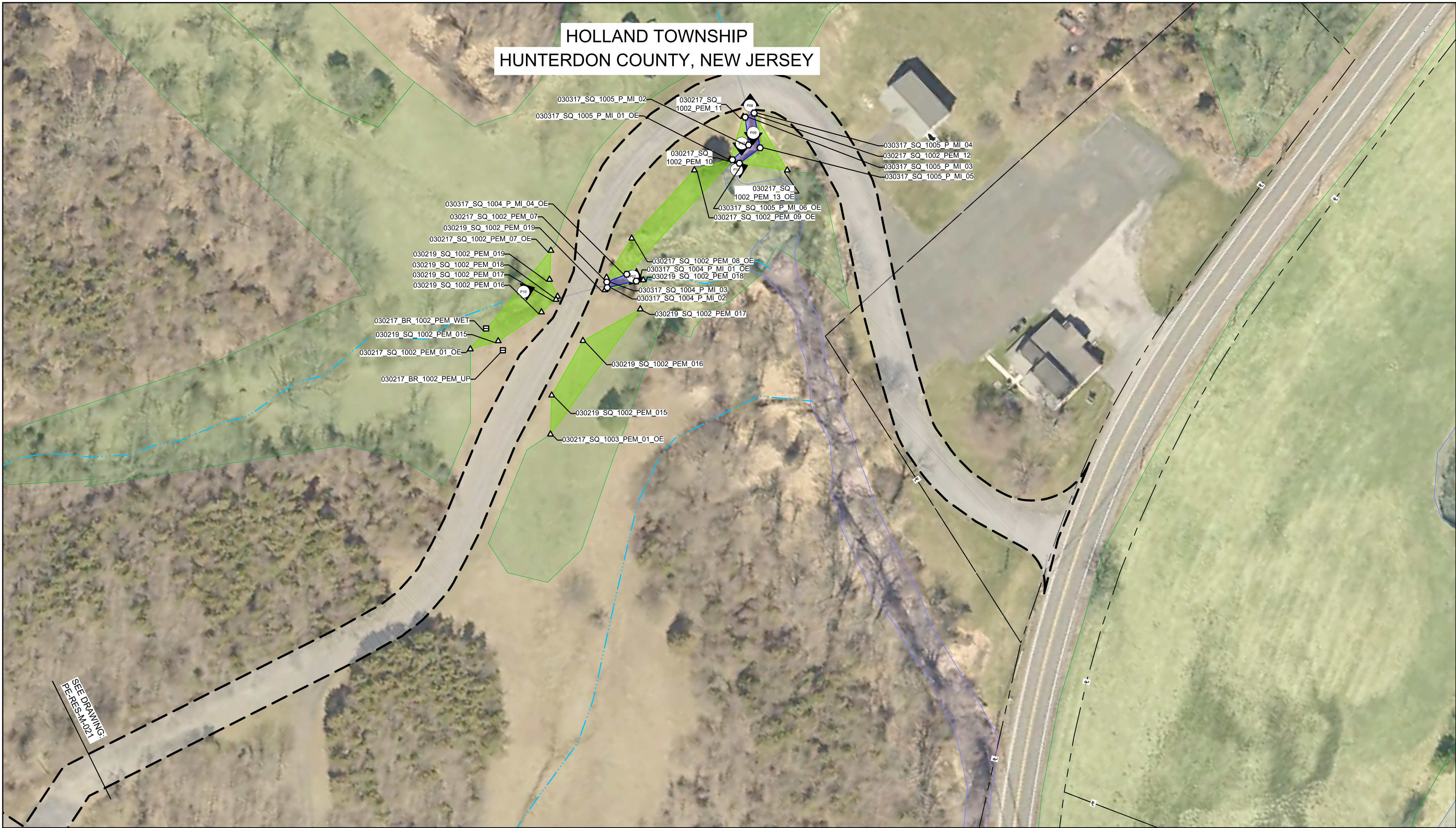
PREPARED FOR

PennEast
PIPELINE

PREPARED BY

MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-084		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-003.1	0



LEGEND	
	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
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	WETLAND (SURVEYED)
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	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK - 1 LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG
	SAMPLE STATION
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE DATE 08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

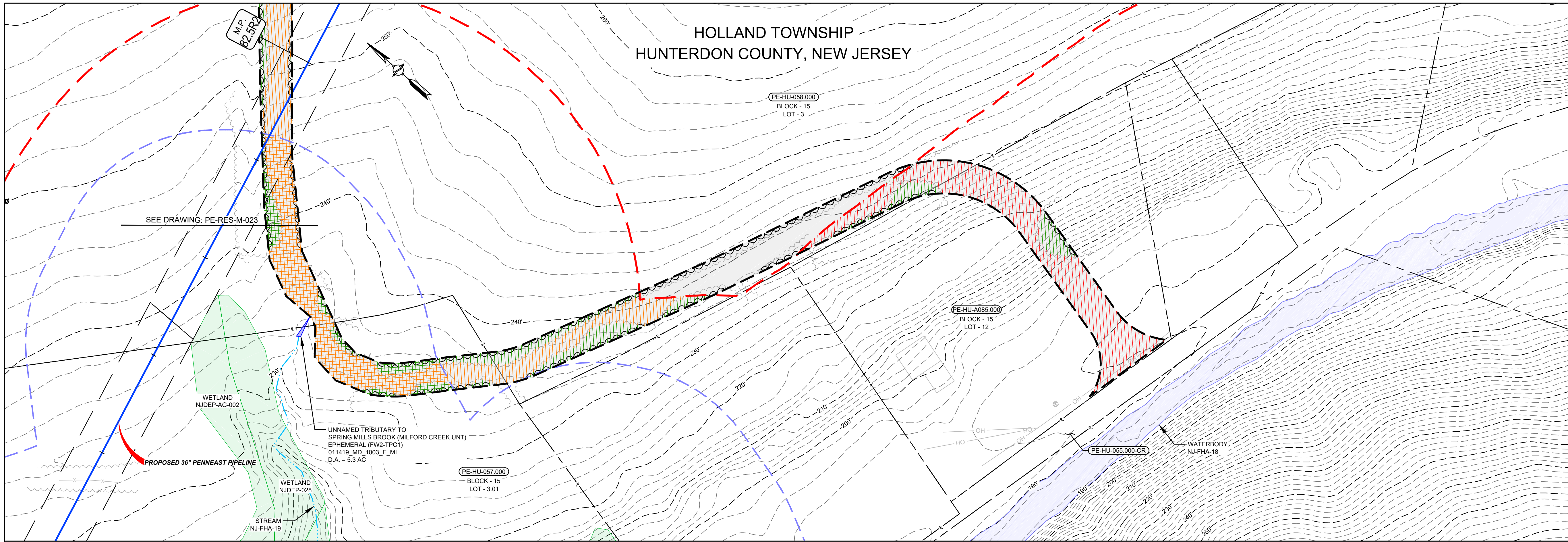
SIGNATURE DATE 08/01/2019

- NOTES:
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
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 - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - RIPARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
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 - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

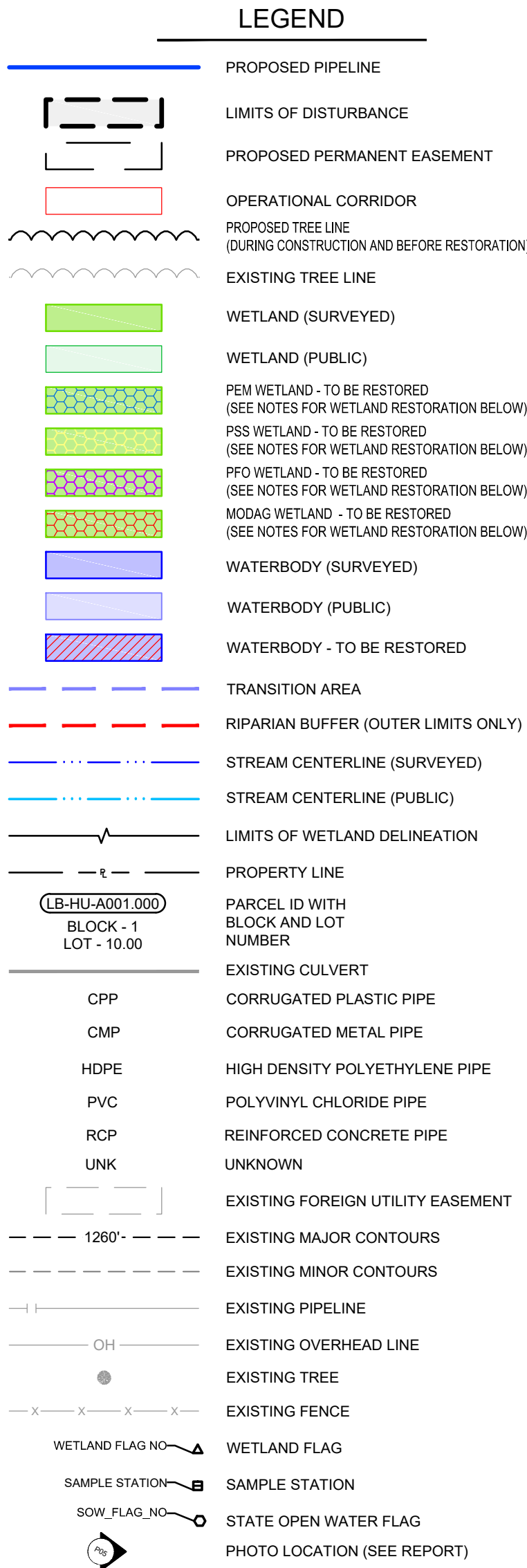
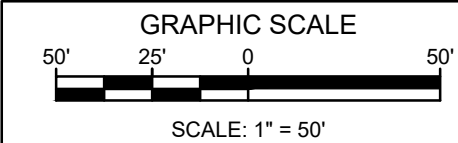
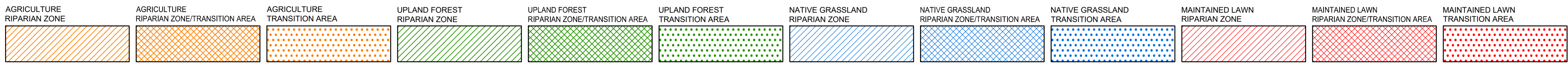
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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
000-03-03-061	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019
								KEK	7/2019
								MJD	7/2019
								MW	7/2019

PREPARED FOR	
PREPARED BY	M M MOTT MACDONALD
	111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016800

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-084		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-003.2	0



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



NOTES FOR WETLAND RESTORATION:
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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

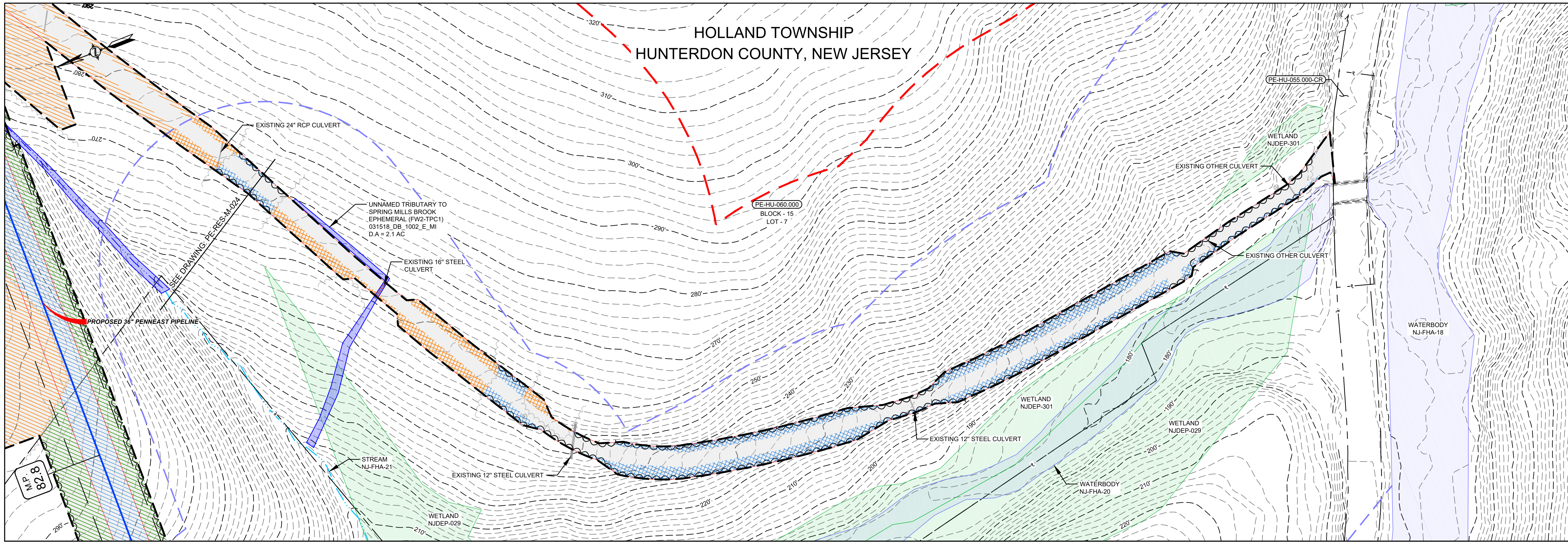
Michael J. Denichilo 08/01/2019
SIGNATURE DATE

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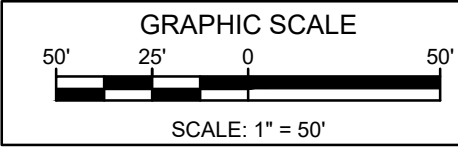
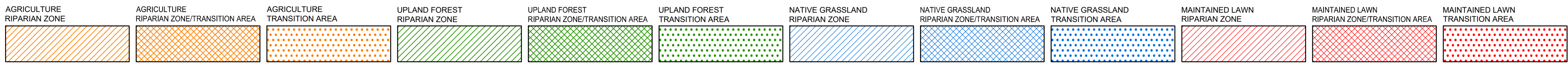
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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
000-03-03-062	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019
								CHECKED BY	DATE
								KEK	7/2019
								ENG. APPROVAL	DATE
								MJD	7/2019
								P.M. APPROVAL	DATE
								MW	7/2019

PREPARED FOR
PennEast
PIPELINE
PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT
**PENNEAST PIPELINE
RESTORATION PERMIT PLAN
AR-085**
SCALE: 1" = 50'
DRAWING NO.: PE-RES-A-004
REVISION: 0



RIPIARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



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REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE		
000-03-03-062	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT

REVISIONS				
NO.	REVISIONS	DATE	DRAWN	CK
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	
7/2019	

PREPARED FOR
PennEast
PIPELINE
PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830
CERTIFICATE NO. 24GA28016600

LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER (LB-HU-A001.000 BLOCK - 1 LOT - 10.00)
- EXISTING CULVERT
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION SAMPLE STATION
- SOW_FLAG_NO STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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N.J. LIC. NO. 24GS03676100

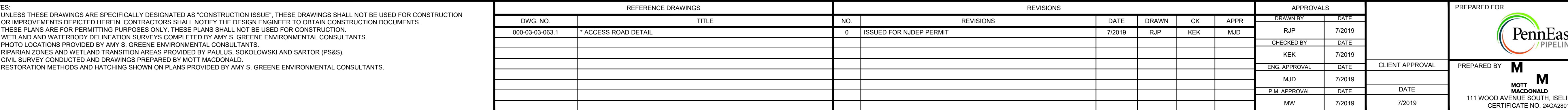
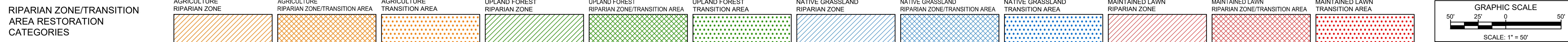
Thomas D. Strong 08/01/2019
SIGNATURE DATE

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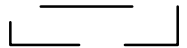










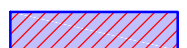







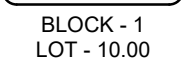

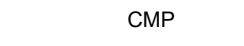
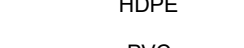


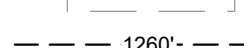
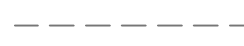


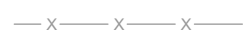




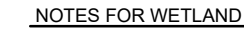



MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-086		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-005	0



LEGEND

	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	FEW WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK + LOT LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG
	SAMPLE STATION
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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THOMAS D. STRONG

PROFESSIONAL LAND SURVEYOR

N.J. LIC. NO. 24G503676100



08/01/2019

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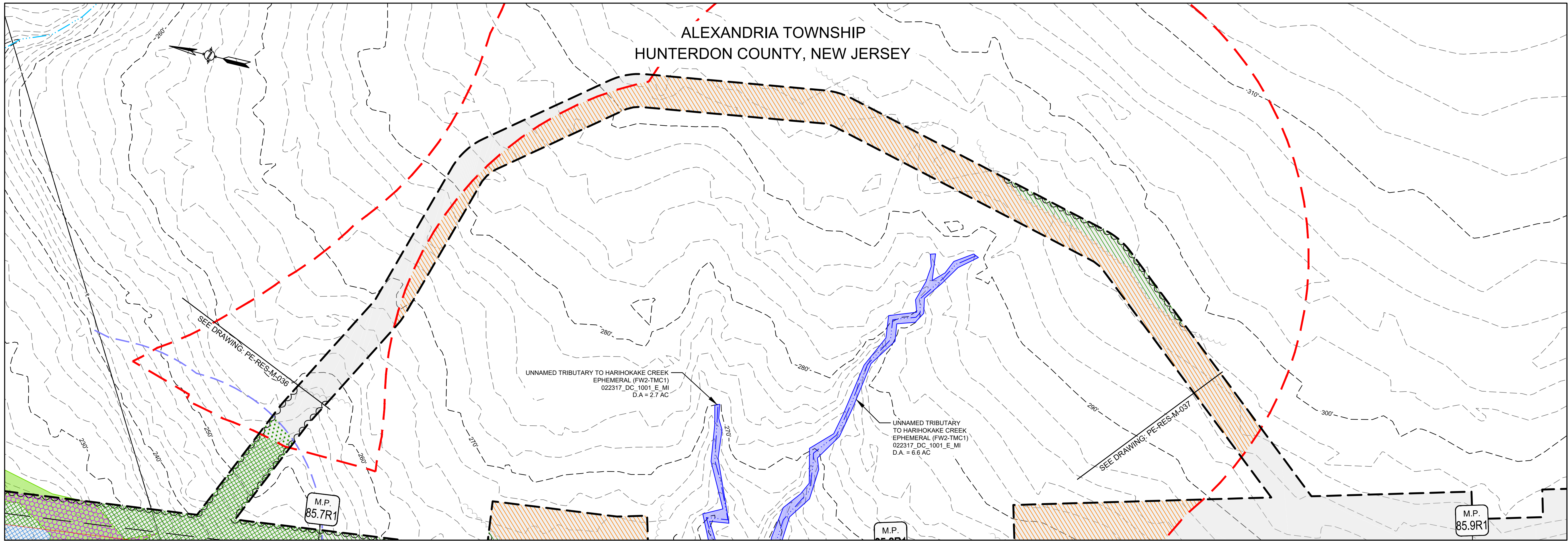
MICHAEL J. DENICHILO
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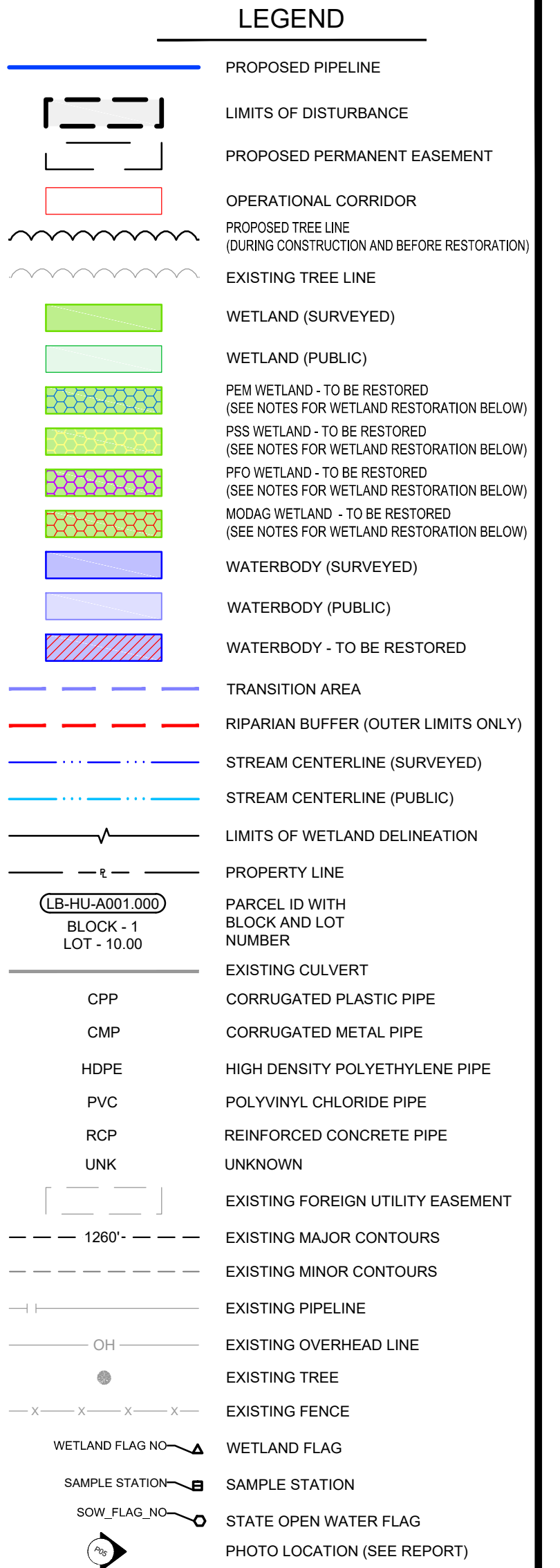
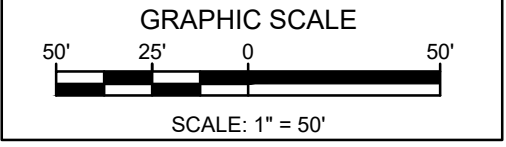
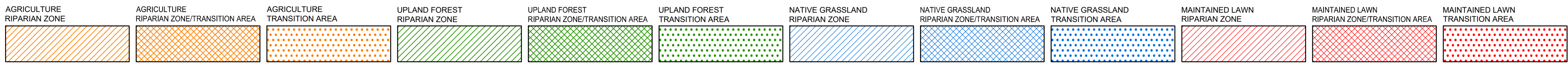
Michael J. Denichilo 08/01/2019

SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
<p style="text-align: center;">PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-087C</p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-006	0



RIPIARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



NOTES FOR WETLAND RESTORATION:

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Michael J. Denichilo 08/01/2019
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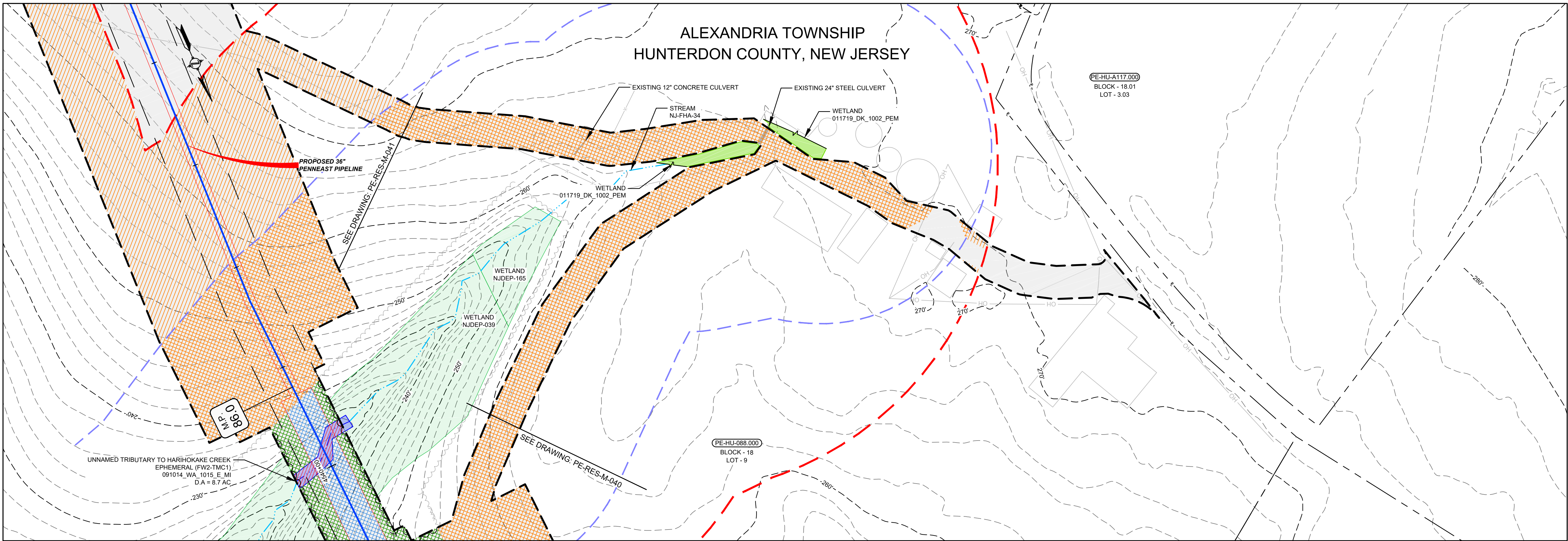
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DWG. NO.	TITLE	NO.	DATE	DRAWN	CK
000-03-03-063.2	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	RJP	KEK

APPROVALS		CLIENT APPROVAL	
DRAWN BY	DATE		
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

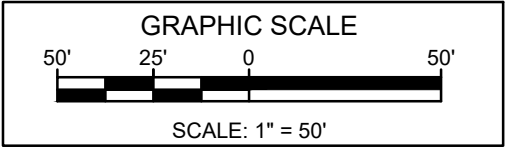
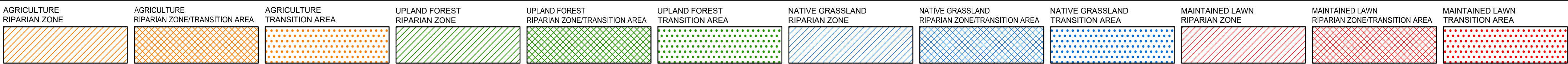
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DRAWN BY	DATE		
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

PREPARED FOR		PREPARED BY	
PennEast PIPELINE		MOTT MACDONALD	
		111 WOOD AVENUE SOUTH, ISELIN, NJ, 08850	
		CERTIFICATE NO. 24GA28016600	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-087D		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-007	0



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



- NOTES:
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REFERENCE DRAWINGS	
DWG. NO.	TITLE
000-03-03-065	* ACCESS ROAD DETAIL

REVISIONS	
NO.	REVISIONS
0	ISSUED FOR NJDEP PERMIT

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

APPROVALS	
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RJP	7/2019
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KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR	
PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016800	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-089 - AR-089A		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-008	0

LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- HDPE
- PVC
- RCP
- UNK
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- SAMPLE STATION
- SOW FLAG NO.
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

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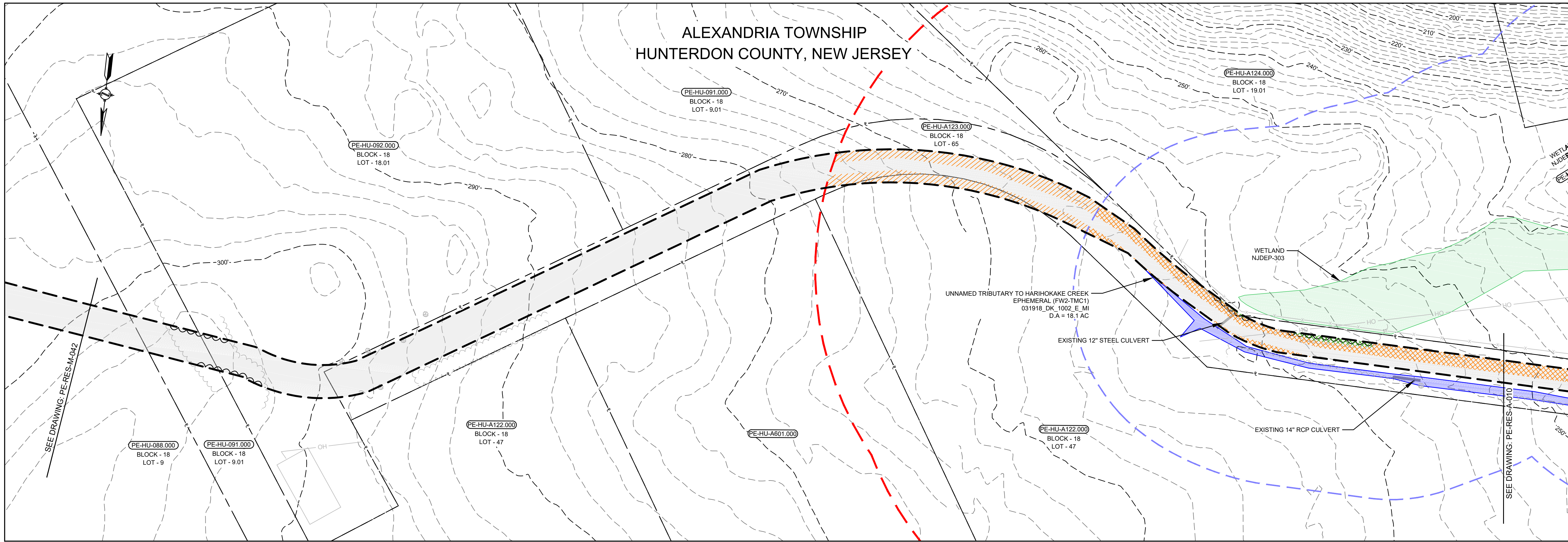
THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

08/01/2019
SIGNATURE DATE

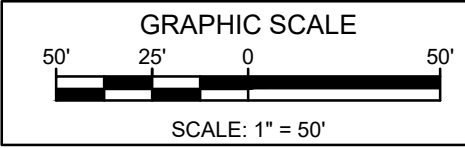
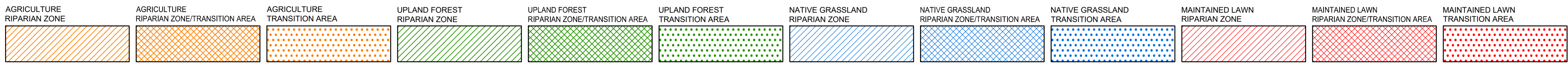
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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

08/01/2019
SIGNATURE DATE



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK - 1 LOT - 10.00
- EXISTING CULVERT
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION
- SOW_FLAG_NO. STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
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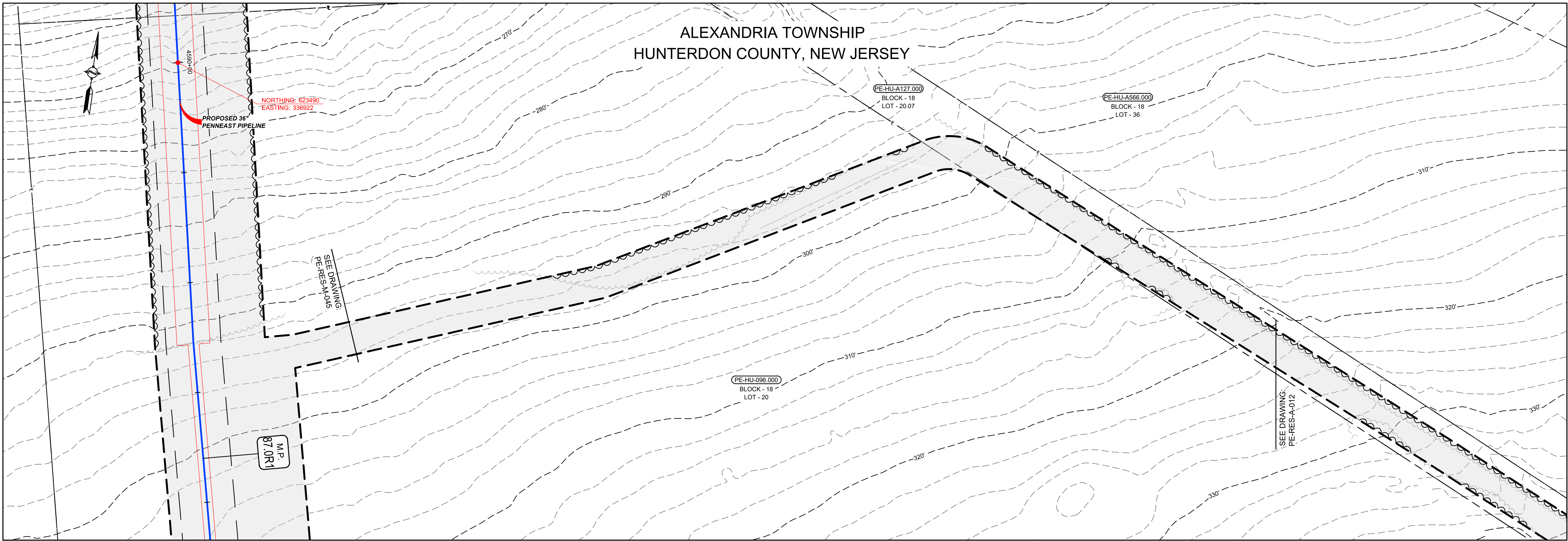
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									CHECKED BY	DATE
									KEK	7/2019
									ENG. APPROVAL	DATE
									MJD	7/2019
									P.M. APPROVAL	DATE
									MW	7/2019

PREPARED FOR
PennEast
PIPELINE

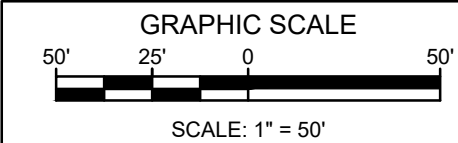
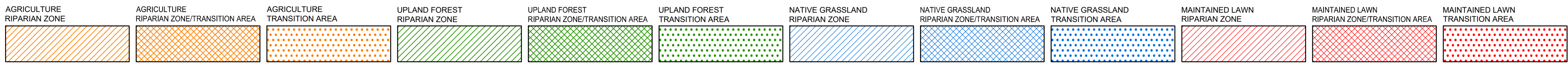
PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-090		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-009	0

PENNEAST PIPELINE PROJECT		
<div style="text-align: center;"> <h1>PENNEAST PIPELINE RESTORATION PERMIT PLAN</h1> <h2>AR-090</h2> </div>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-010	0



RIPIARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER (LB-HU-A001.000)
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE (CPP)
- CORRUGATED METAL PIPE (CMP)
- HIGH DENSITY POLYETHYLENE PIPE (HDPE)
- POLYVINYL CHLORIDE PIPE (PVC)
- REINFORCED CONCRETE PIPE (RCP)
- UNKNOWN PIPE (UNK)
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS (1260')
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW_FLAG_NO.
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PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
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DWG. NO.	TITLE	NO.	ISSUED FOR NJDEP PERMIT	DATE	DRAWN	CK	APPR	
000-03-03-067.1	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

REVISIONS					APPROVALS			
NO.	ISSUED FOR NJDEP PERMIT	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019	
						CHECKED BY	DATE	
						KEK	7/2019	
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						MJD	7/2019	
						P.M. APPROVAL	DATE	
						MW	7/2019	

APPROVALS		CLIENT APPROVAL	DATE
DRAWN BY	DATE		
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P.M. APPROVAL	DATE		
MW	7/2019		

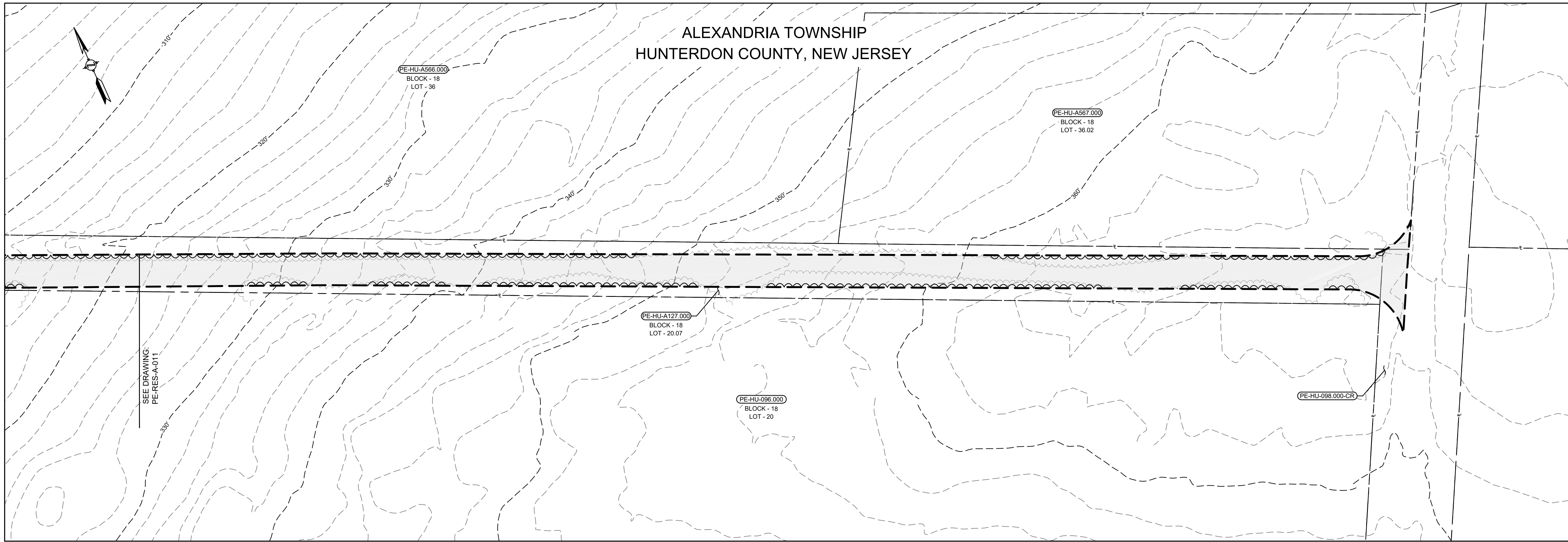
PREPARED FOR

PennEast
PIPELINE

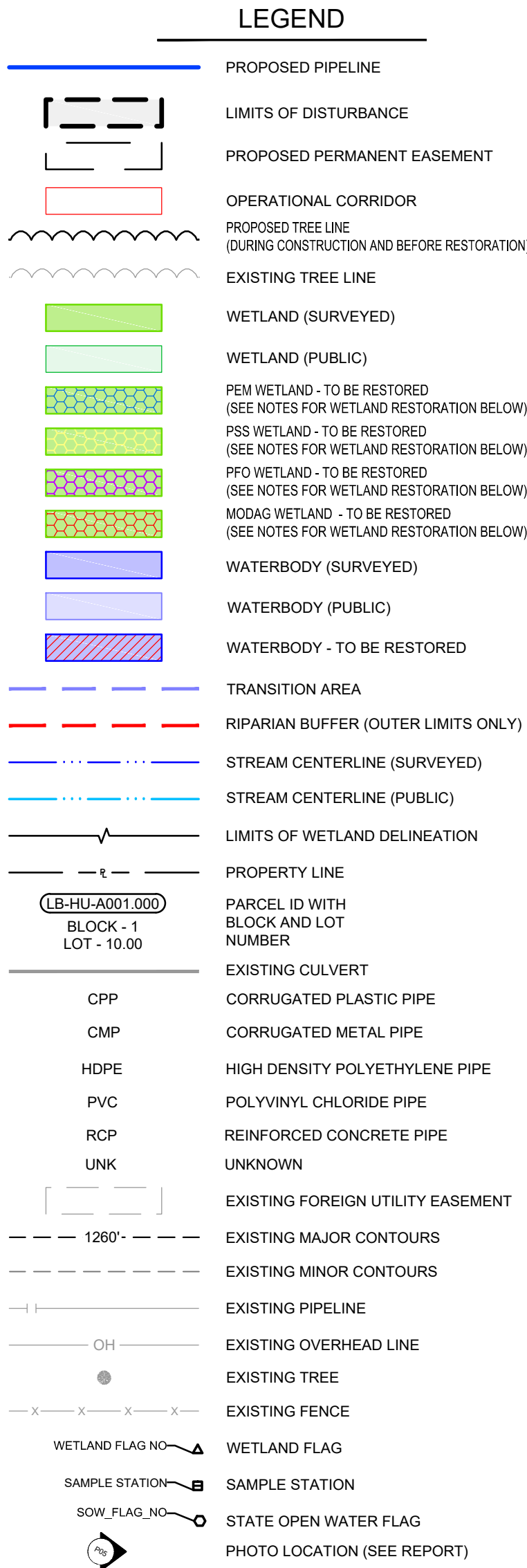
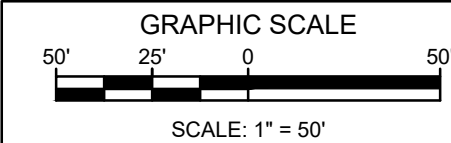
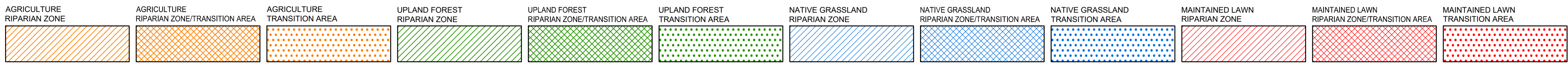
PREPARED BY

M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-090A		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-011	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

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THOMAS D. STRONG
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Thomas D. Strong 08/01/2019
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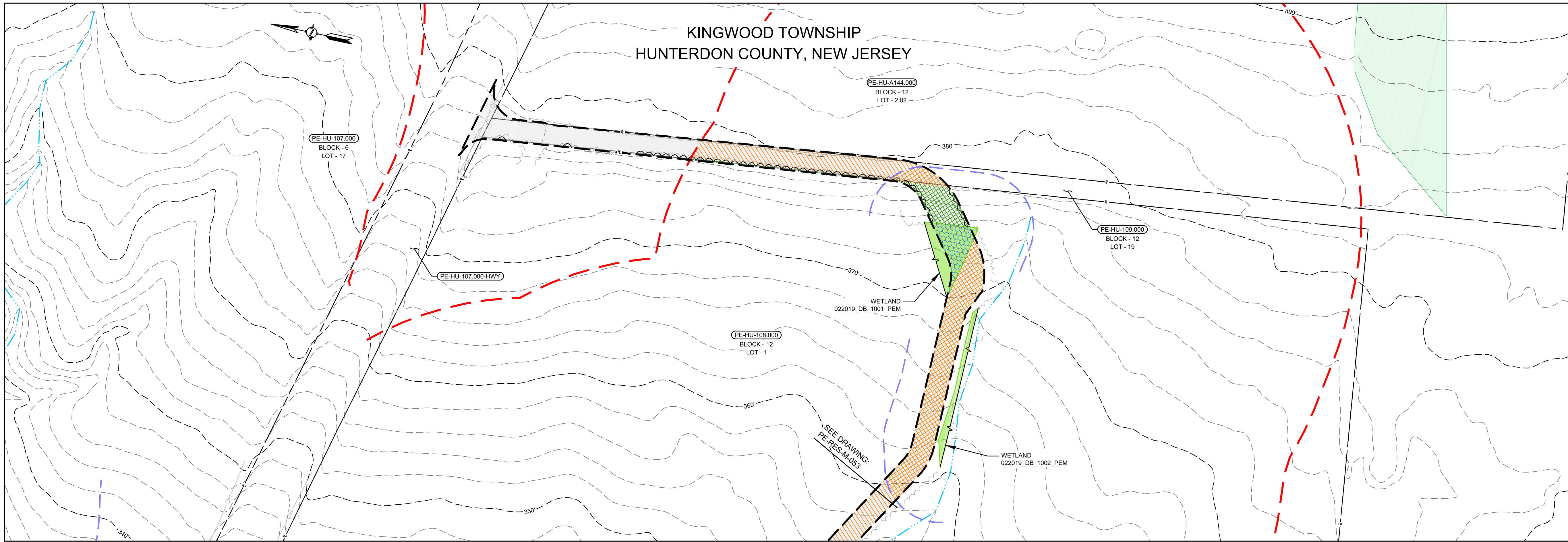
APPROVALS				CLIENT APPROVAL			
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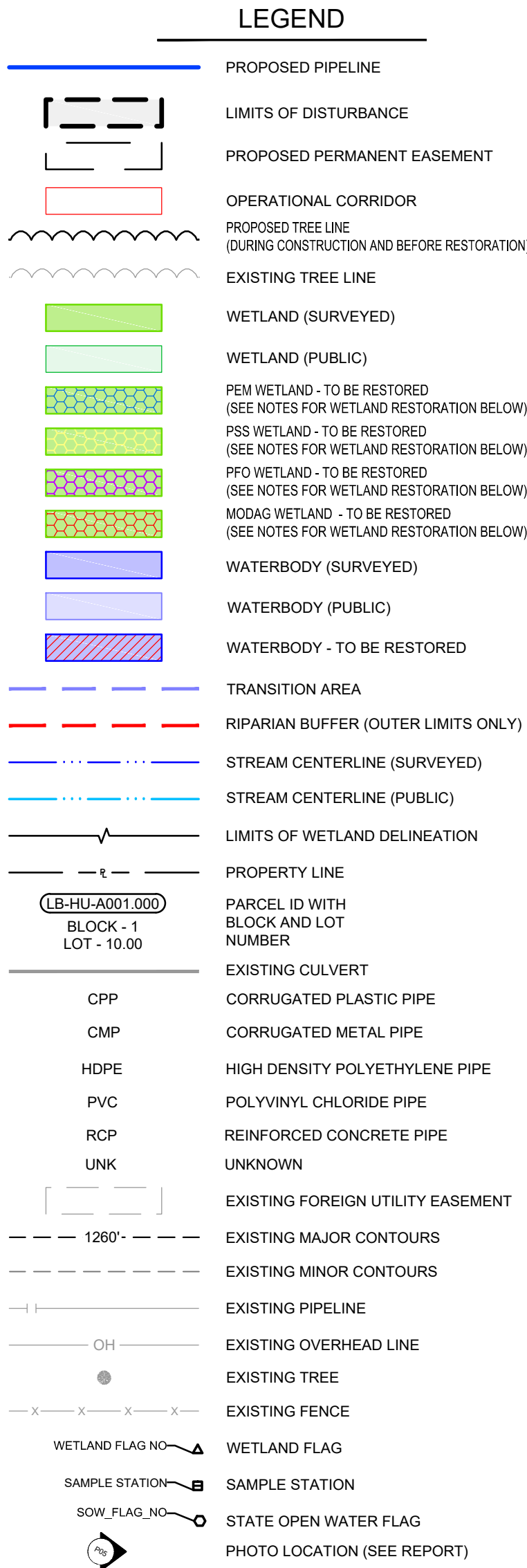
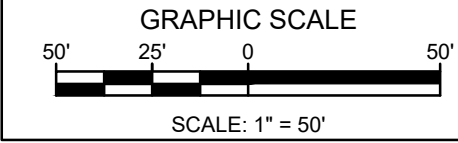
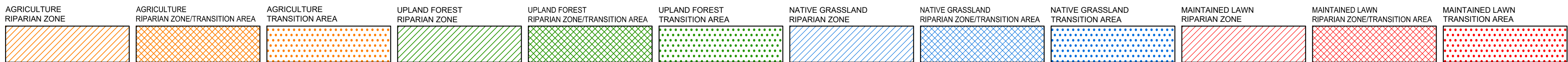
PREPARED FOR
PennEast
PIPELINE

PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-090A		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-012	0



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



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REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE		
000-03-03-067.2	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT

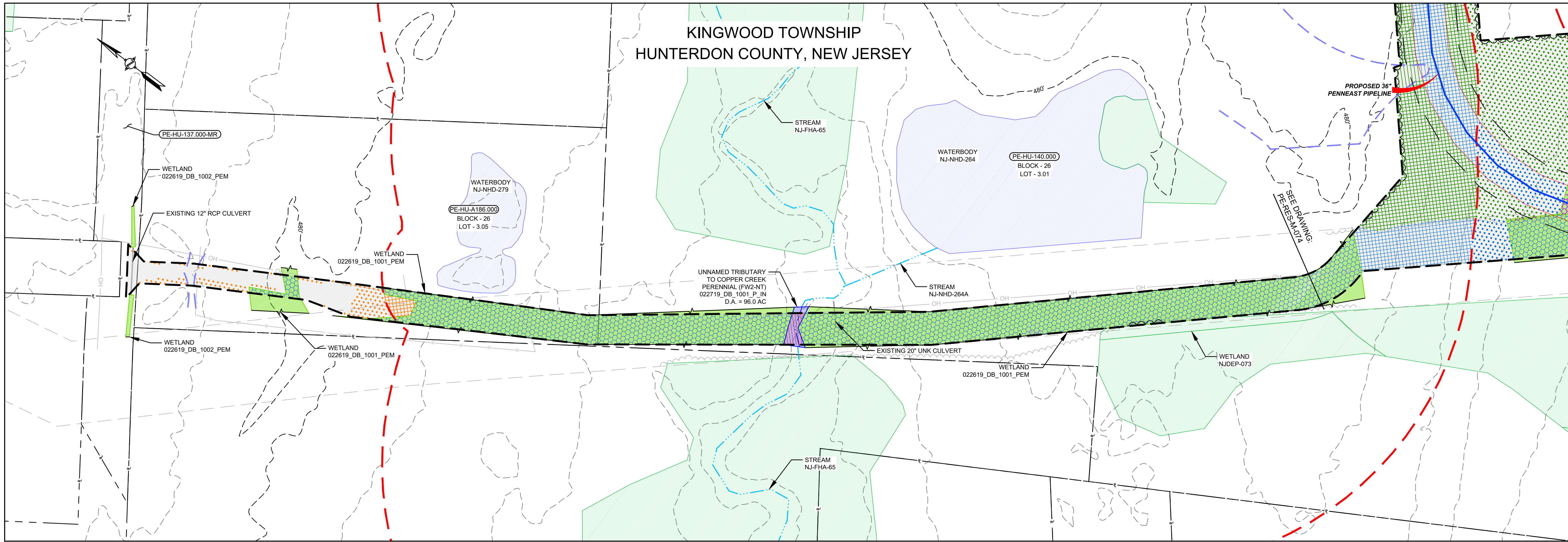
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NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019
						CHECKED BY	DATE
						KEK	7/2019
						ENG. APPROVAL	DATE
						MJD	7/2019
						P.M. APPROVAL	DATE
						MW	7/2019

APPROVALS		CLIENT APPROVAL	
DRAWN BY	DATE		
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

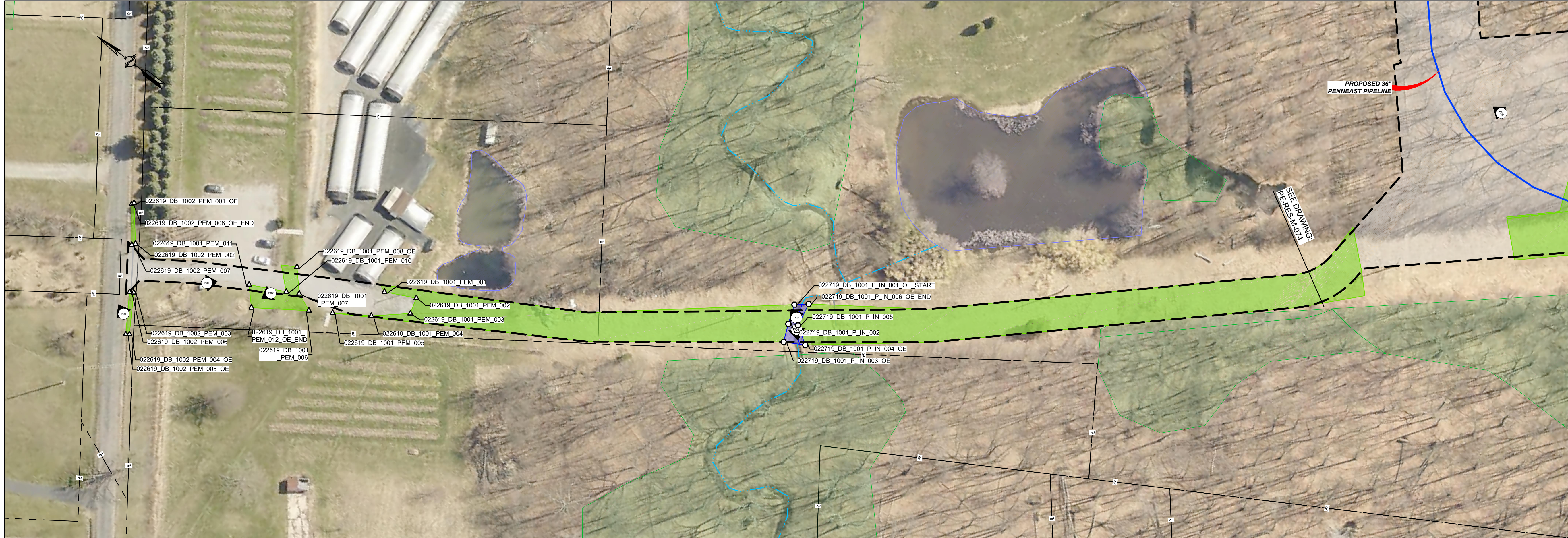
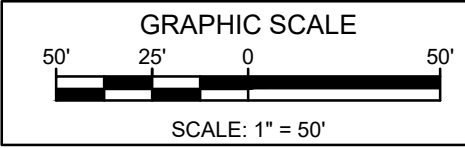
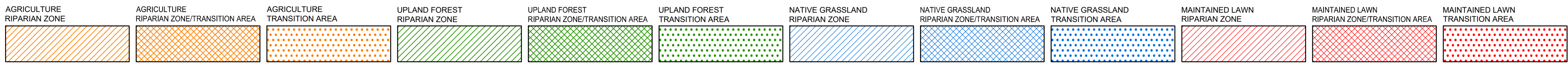
PREPARED FOR
PennEast
PIPELINE

PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-090C		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-014	0



RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



LEGEND	
	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK AND LOT NUMBER
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG
	SAMPLE STATION
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE

08/01/2019
DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE

08/01/2019
DATE

- NOTES:
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
 - THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
 - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - RIPARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
 - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.
 - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS	
DWG. NO.	TITLE
000-03-03-069.1	* ACCESS ROAD DETAIL

REVISIONS					
NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

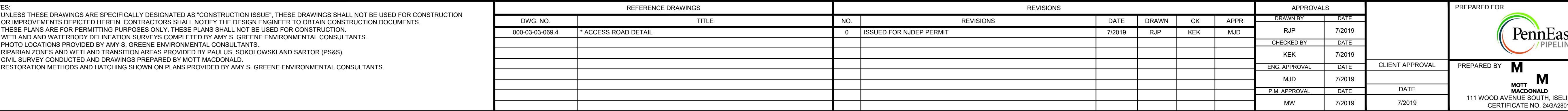
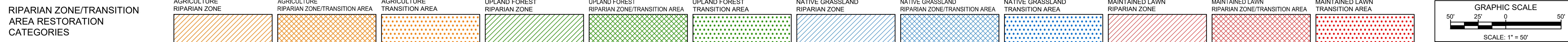
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DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	
7/2019	

PREPARED FOR

PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-092A		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-016	0



LEGEND

	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK - 1 LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG
	SAMPLE STATION
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I
HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN
WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT
SUPERVISION.

THOMAS D. STRONG

PROFESSIONAL LAND SURVEYOR

N.J. LIC. NO. 24G503676100



08/01/2019

SIGNATURE	DATE
-----------	------

I AM A DULY REGISTERED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I
HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL
DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND
WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER

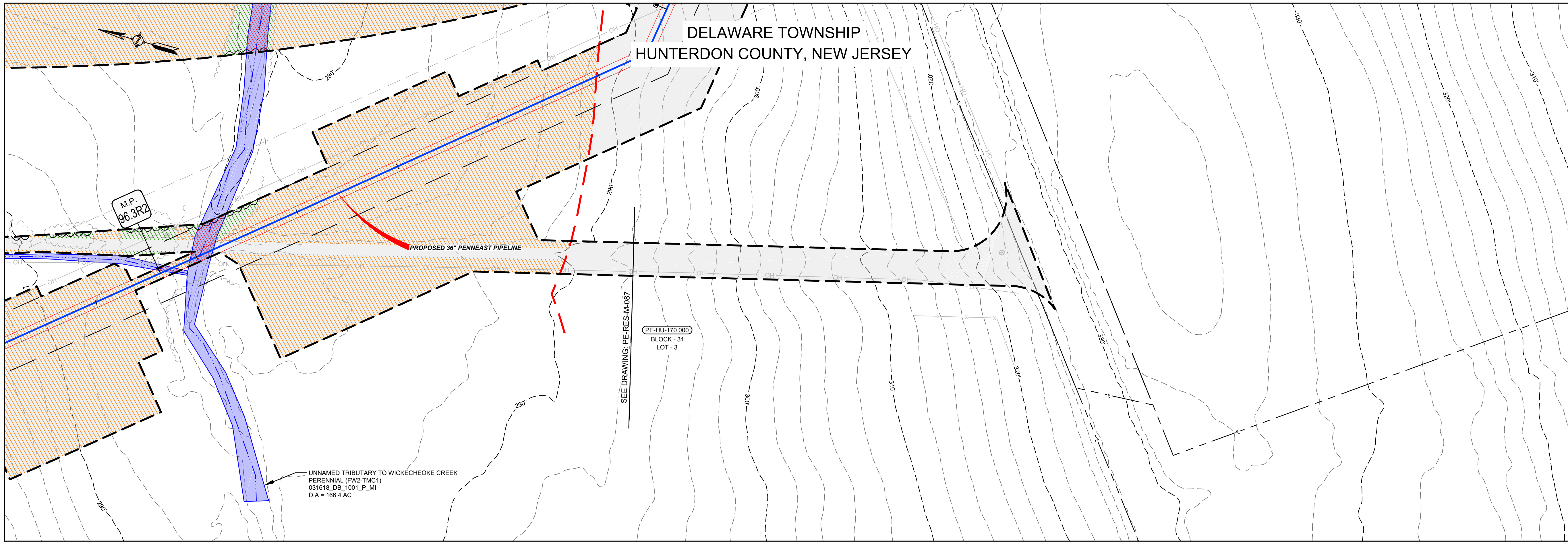
N.J. LIC. NO. 24GE0507800

Michael J. Denichilo

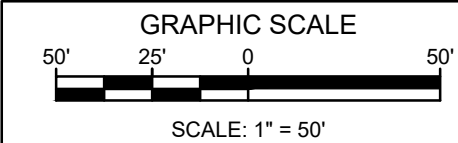
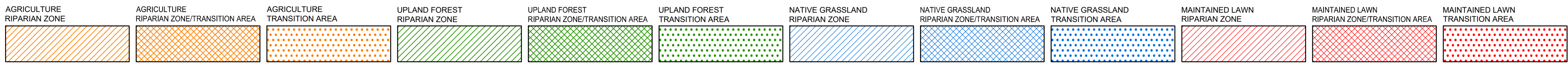
08/01/2019

SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-092D		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-018	0



RIPIARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER (LB-HU-001.000)
- EXISTING CULTIVT
- CORRUGATED PLASTIC PIPE (CPP)
- CORRUGATED METAL PIPE (CMP)
- HIGH DENSITY POLYETHYLENE PIPE (HDPE)
- POLYVINYL CHLORIDE PIPE (PVC)
- REINFORCED CONCRETE PIPE (RCP)
- UNKNOWN (UNK)
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE (OH)
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. (WETLAND FLAG)
- SAMPLE STATION (SAMPLE STATION)
- SOW_FLAG_NO. (STATE OPEN WATER FLAG)
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

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 - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
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 - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.
 - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		NO.		REVISIONS			
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR
000-03-03-071	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS		CLIENT APPROVAL	
DRAWN BY	DATE	DATE	DATE
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

PREPARED FOR

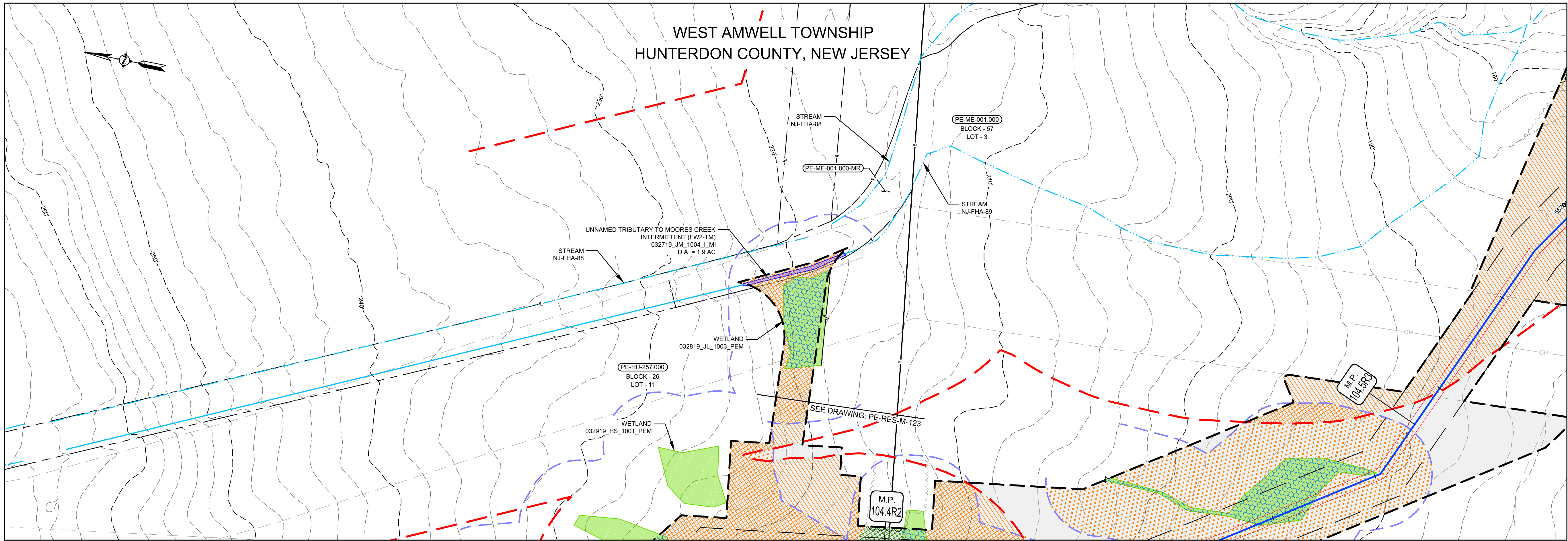
PennEast
PIPELINE

PREPARED BY **M M**
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

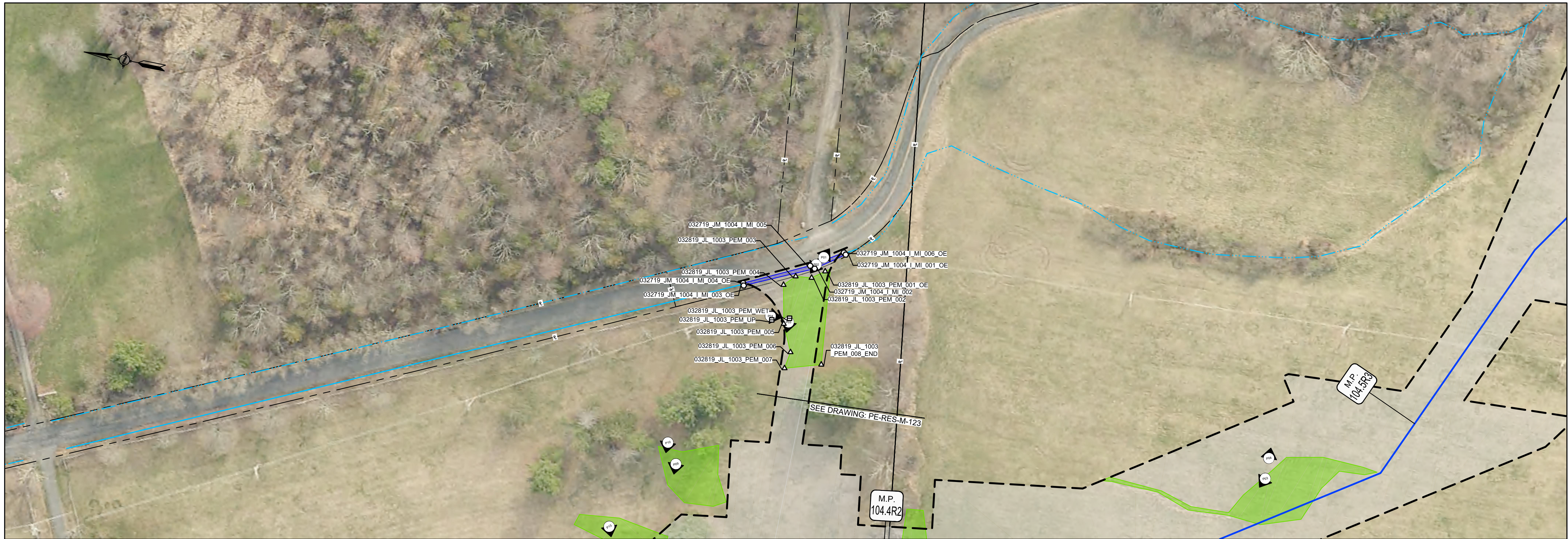
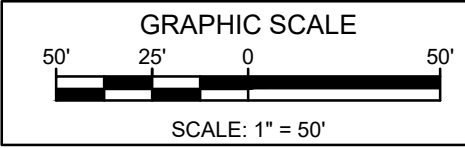
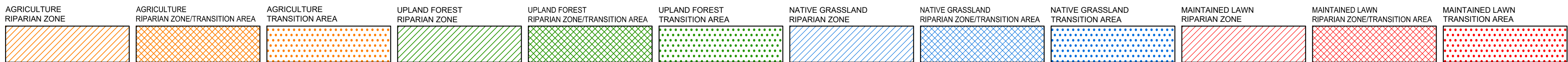
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-096

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-019	0



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



- NOTES:
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
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 - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE		
000-03-03-077	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT

REVISIONS				
NO.	REVISIONS	DATE	DRAWN	CK
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	
7/2019	

PREPARED FOR
PennEast
PIPELINE
PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- HDPPE
- HIGH DENSITY POLYETHYLENE PIPE
- PVC
- POLYVINYL CHLORIDE PIPE
- RCP
- REINFORCED CONCRETE PIPE
- UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW_FLAG_NO.
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

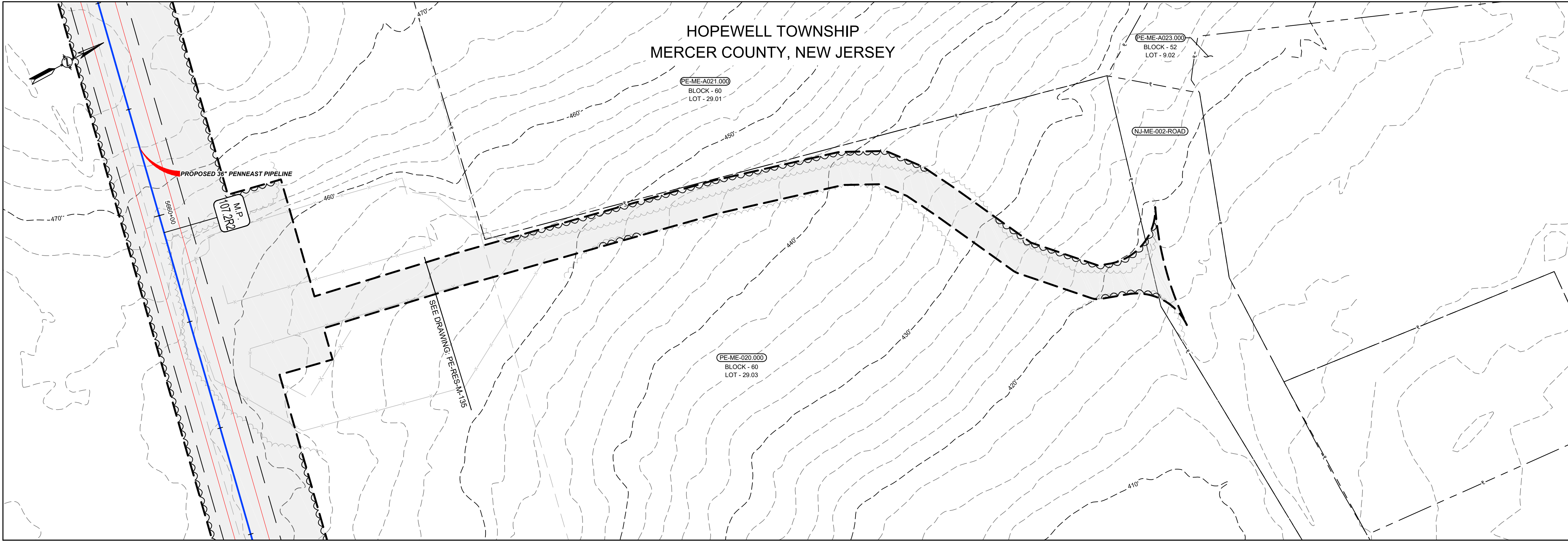
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

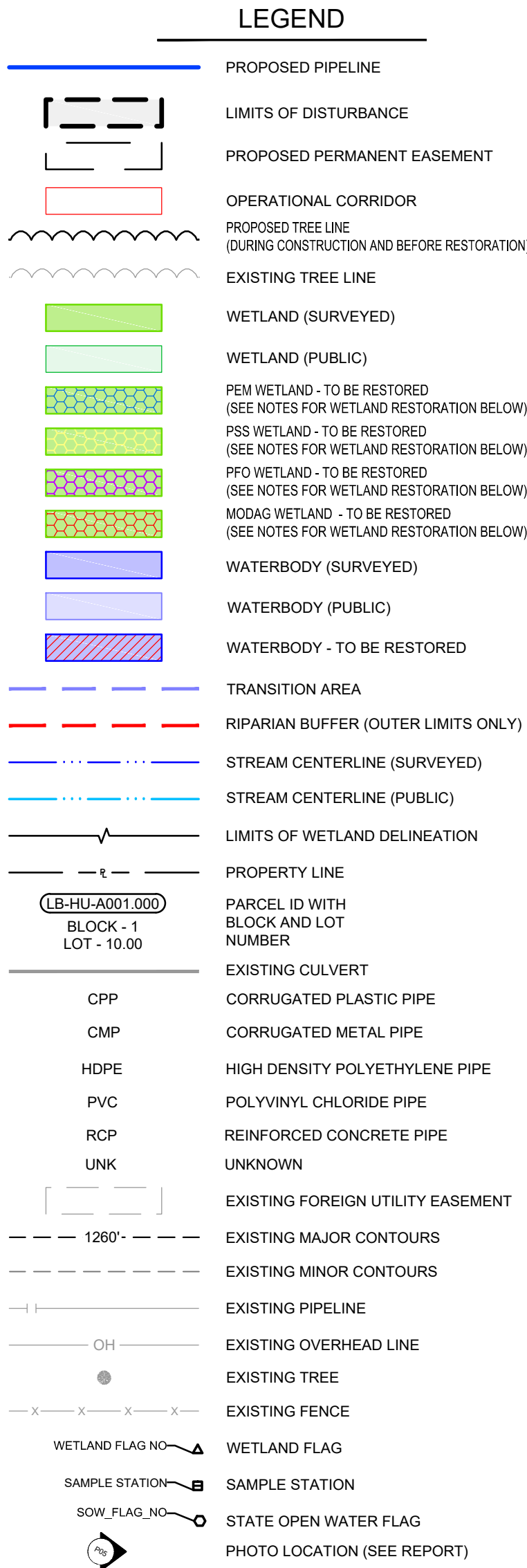
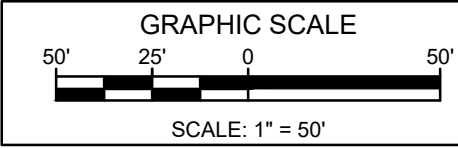
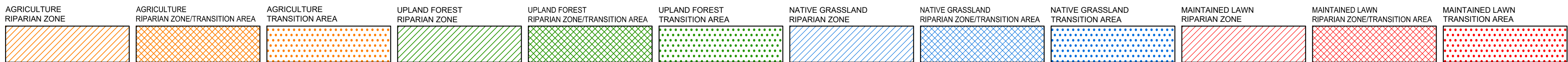
MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-100		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-021	0



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR
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WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT
SUPERVISION.

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PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I
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DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND
WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

- NOTES:
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
 - THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
 - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - RIPIARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
 - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.
 - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
000-03-03-078	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

REVISIONS							APPROVALS	
NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
							RJP	7/2019
							CHECKED BY	DATE
							KEK	7/2019
							ENG. APPROVAL	DATE
							MJD	7/2019
							P.M. APPROVAL	DATE
							MW	7/2019

APPROVALS		CLIENT APPROVAL
DRAWN BY	DATE	
RJP	7/2019	
CHECKED BY	DATE	
KEK	7/2019	
ENG. APPROVAL	DATE	
MJD	7/2019	
P.M. APPROVAL	DATE	
MW	7/2019	

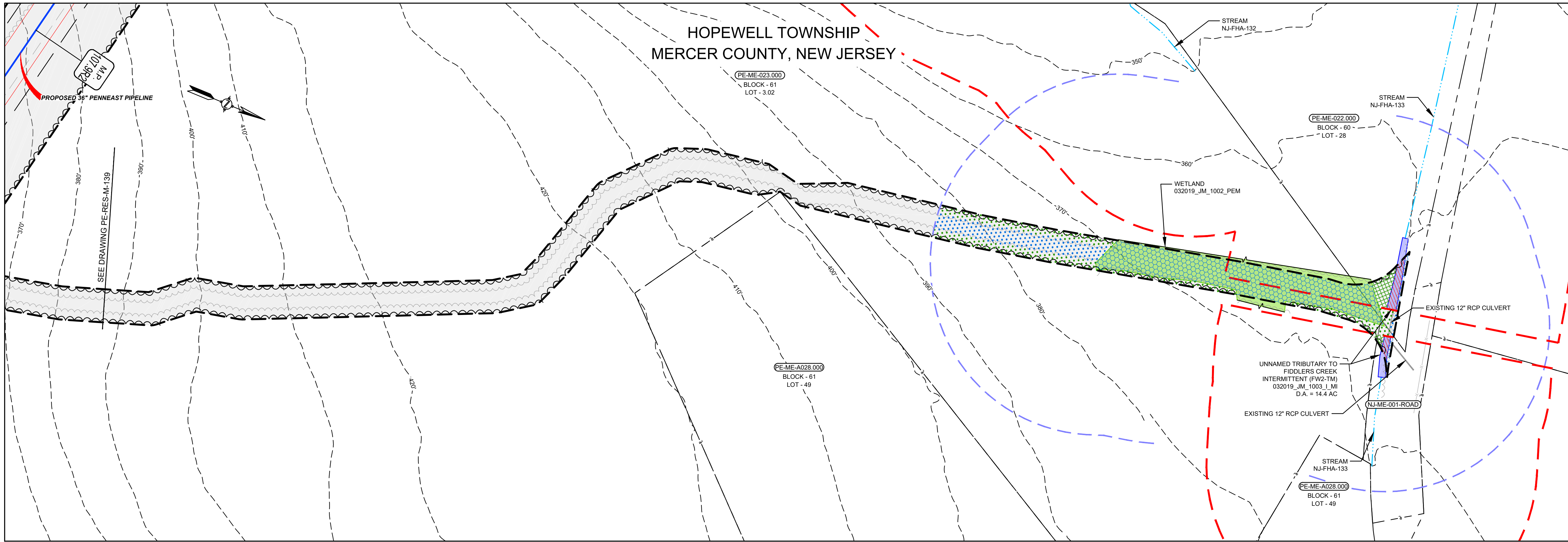
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CLIENT APPROVAL	
DATE	

PREPARED FOR

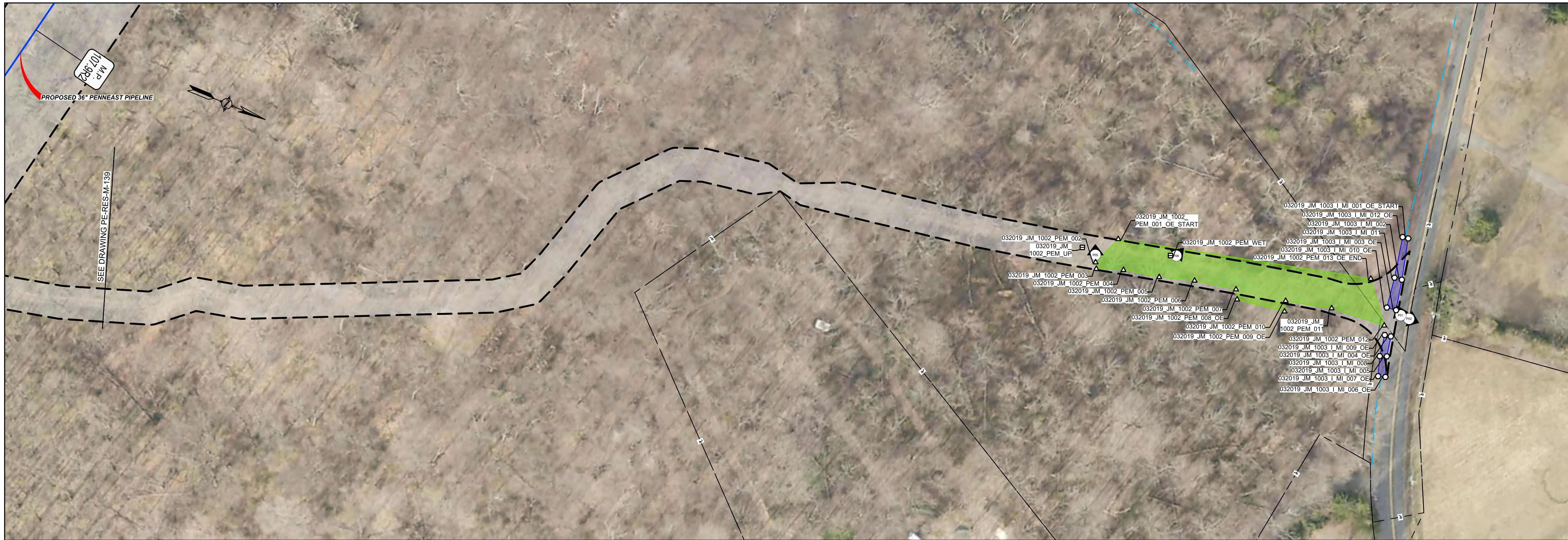
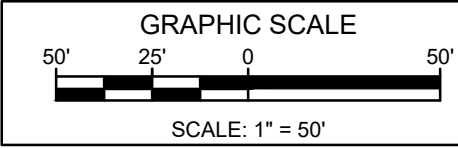
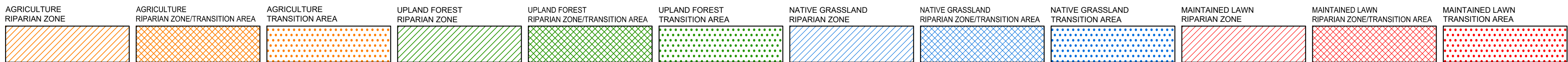
PennEast
PIPELINE

PREPARED BY **M M**
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-101		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-022	0



RIPIARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- HDPPE
- PVC
- RCP
- UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE: *Thomas D. Strong* DATE: 08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE: *Michael J. Denichilo* DATE: 08/01/2019

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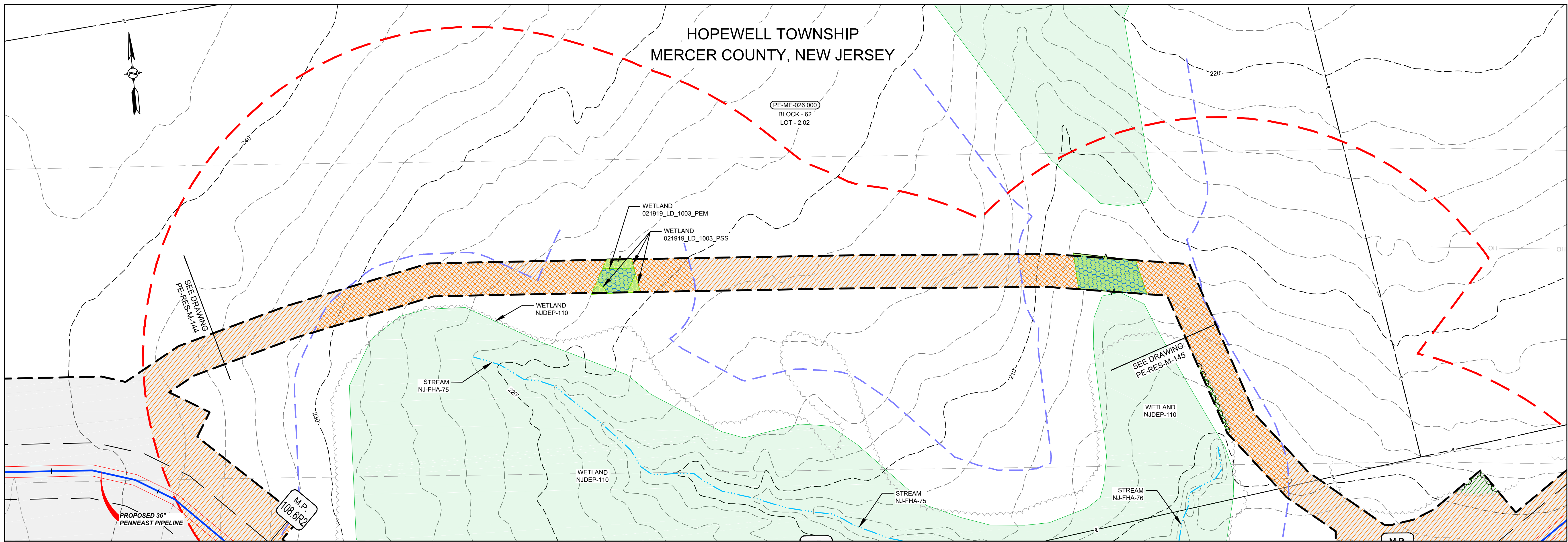
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DWG. NO.	TITLE	NO.		REVISIONS	DATE	DRAWN	CK
000-03-03-079.1	* ACCESS ROAD DETAIL	0		ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK

APPROVALS				APPROVALS			
DRAWN BY	DATE	DRAWN BY	DATE	DRAWN BY	DATE	DRAWN BY	DATE
RJP	7/2019	RJP	7/2019	RJP	7/2019	RJP	7/2019
CHECKED BY	DATE	CHECKED BY	DATE	CHECKED BY	DATE	CHECKED BY	DATE
KEK	7/2019	KEK	7/2019	KEK	7/2019	KEK	7/2019
ENG. APPROVAL	DATE	ENG. APPROVAL	DATE	ENG. APPROVAL	DATE	ENG. APPROVAL	DATE
MJD	7/2019	MJD	7/2019	MJD	7/2019	MJD	7/2019
P.M. APPROVAL	DATE	P.M. APPROVAL	DATE	P.M. APPROVAL	DATE	P.M. APPROVAL	DATE
MW	7/2019	MW	7/2019	MW	7/2019	MW	7/2019

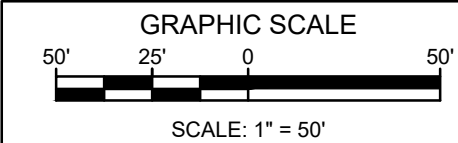
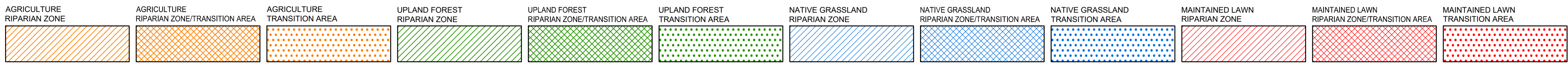
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DRAWN BY	DATE	DRAWN BY	DATE
RJP	7/2019	RJP	7/2019
CHECKED BY	DATE	CHECKED BY	DATE
KEK	7/2019	KEK	7/2019
ENG. APPROVAL	DATE	ENG. APPROVAL	DATE
MJD	7/2019	MJD	7/2019
P.M. APPROVAL	DATE	P.M. APPROVAL	DATE
MW	7/2019	MW	7/2019

PREPARED FOR		PREPARED BY	
PennEast PIPELINE		MOTT MACDONALD	
		111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830	
		CERTIFICATE NO. 24GA28016600	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-102		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-023	0



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



- NOTES:
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REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE		
000-03-03-079.2	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT

REVISIONS				APPROVALS			
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						CHECKED BY	DATE
						KEK	7/2019
						ENG. APPROVAL	DATE
						MJD	7/2019
						P.M. APPROVAL	DATE
						MW	7/2019

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR	PennEast PIPELINE
PREPARED BY	M MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830	
CERTIFICATE NO. 24GA28016600	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-102B		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-024	0

LEGEND	
	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPIARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK - 1 LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG NO.
	SAMPLE STATION
	SOW FLAG NO.
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE

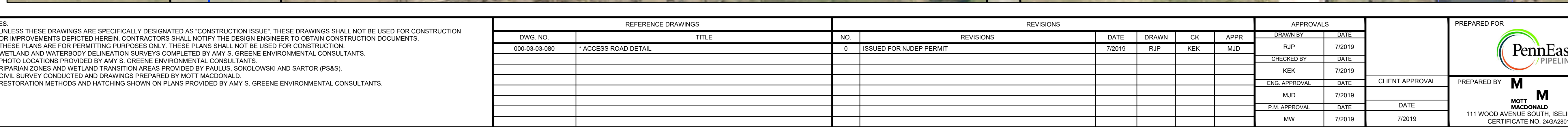
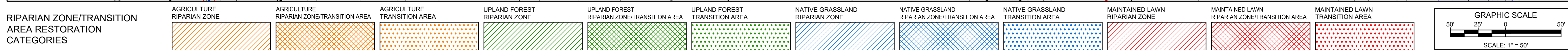
08/01/2019
DATE

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE

08/01/2019
DATE



LEGEND

	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK - 1 LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG
	SAMPLE STATION
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

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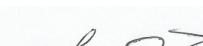
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THOMAS D. STRONG

PROFESSIONAL LAND SURVEYOR

N.J. LIC. NO. 24G503676100



08/01/2019

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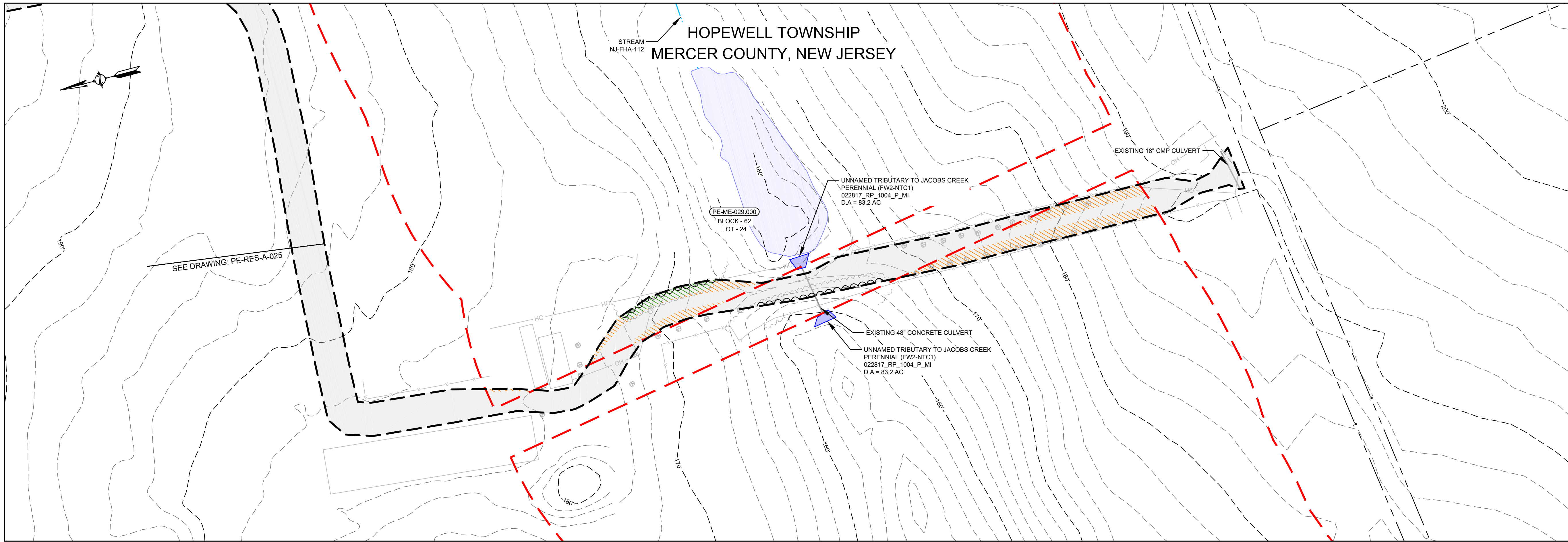
MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER

N.J. LIC. NO. 24GE0507800

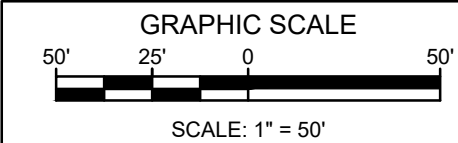
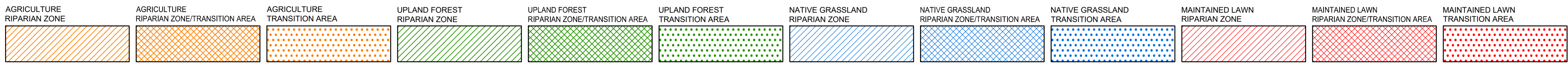
Michael Denichilo 08/01/2019

SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
<p>PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-103A - AR-103B</p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-025	0



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



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REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE		
000-03-03-080	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT

REVISIONS				
NO.	REVISIONS	DATE	DRAWN	CK
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR	
PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016600	

LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER (LB-HU-A001.000 BLOCK - 1 LOT - 10.00)
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE (CPP)
- CORRUGATED METAL PIPE (CMP)
- HIGH DENSITY POLYETHYLENE PIPE (HDPE)
- POLYVINYL CHLORIDE PIPE (PVC)
- REINFORCED CONCRETE PIPE (RCP)
- UNKNOWN (UNK)
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE (OH)
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. (WETLAND FLAG)
- SAMPLE STATION (SAMPLE STATION)
- SOW_FLAG_NO. (STATE OPEN WATER FLAG)
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS* PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

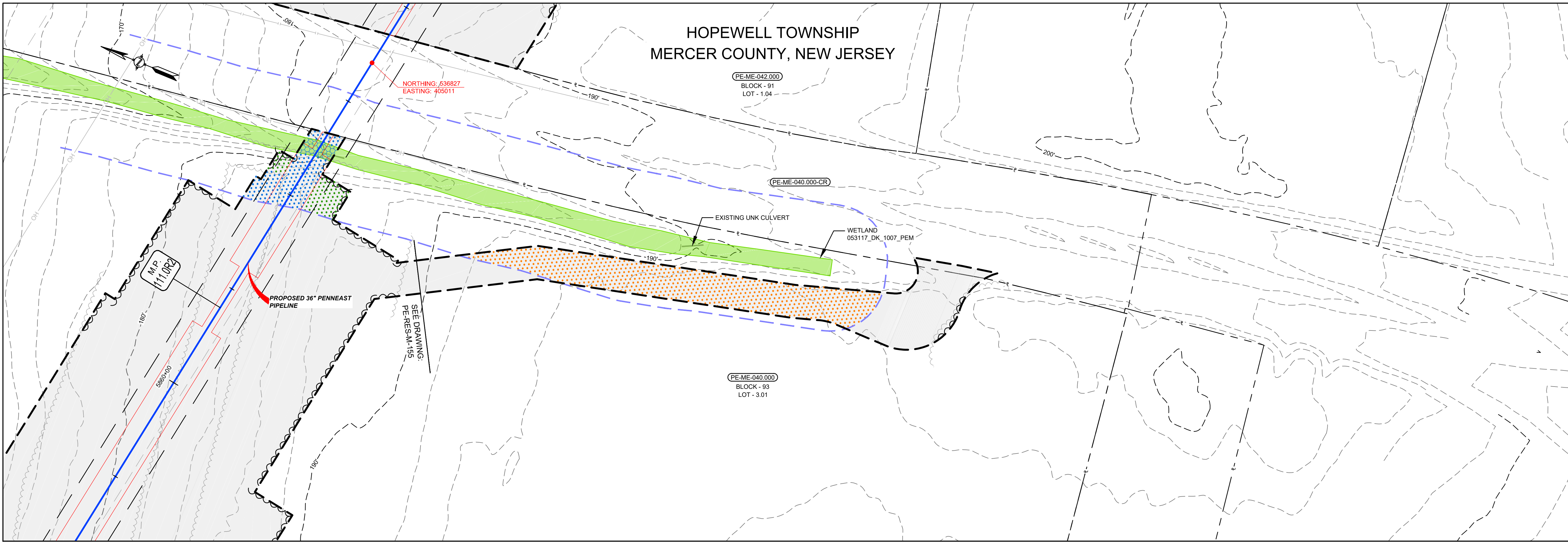
08/01/2019
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

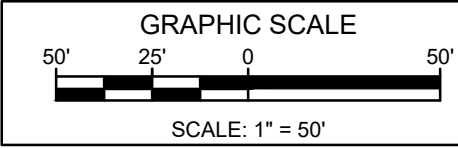
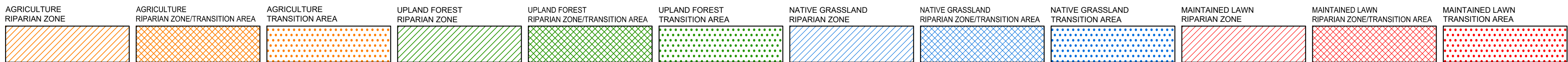
MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

08/01/2019
SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-103B		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-026	0



RIPIARIAN ZONE/TRANSITION
AREA RESTORATION
CATEGORIES



LEGEND

PROPOSED PIPELINE

LIMITS OF DISTURBANCE

PROPOSED PERMANENT EASEMENT

OPERATIONAL CORRIDOR

PROPOSED TREE LINE
(DURING CONSTRUCTION AND BEFORE RESTORATION)

EXISTING TREE LINE

WETLAND (SURVEYED)

WETLAND (PUBLIC)

PEM WETLAND - TO BE RESTORED
(SEE NOTES FOR WETLAND RESTORATION BELOW)

PSS WETLAND - TO BE RESTORED
(SEE NOTES FOR WETLAND RESTORATION BELOW)

PFO WETLAND - TO BE RESTORED
(SEE NOTES FOR WETLAND RESTORATION BELOW)

MODAG WETLAND - TO BE RESTORED
(SEE NOTES FOR WETLAND RESTORATION BELOW)

WATERBODY (SURVEYED)

WATERBODY (PUBLIC)

WATERBODY - TO BE RESTORED

TRANSITION AREA

RIPIARIAN BUFFER (OUTER LIMITS ONLY)

STREAM CENTERLINE (SURVEYED)

STREAM CENTERLINE (PUBLIC)

LIMITS OF WETLAND DELINEATION

PROPERTY LINE

PARCEL ID WITH
BLOCK - 1
LOT - 10.00

EXISTING CULVERT

CPP CORRUGATED PLASTIC PIPE

CMP CORRUGATED METAL PIPE

HDPE HIGH DENSITY POLYETHYLENE PIPE

PVC POLYVINYL CHLORIDE PIPE

RCP REINFORCED CONCRETE PIPE

UNK UNKNOWN

EXISTING FOREIGN UTILITY EASEMENT

1260'

EXISTING MAJOR CONTOURS

EXISTING MINOR CONTOURS

EXISTING PIPELINE

OH EXISTING OVERHEAD LINE

EXISTING TREE

EXISTING FENCE

WETLAND FLAG NO. WETLAND FLAG

SAMPLE STATION SAMPLE STATION

SOW_FLAG_NO STATE OPEN WATER FLAG

PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I
HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN
WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT
SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I
HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL
DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND
WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

- NOTES:
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
 - THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
 - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - RIPIARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
 - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.
 - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE		
000-03-03-083	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT

REVISIONS				
REVISIONS				
DATE	DRAWN	CK	APPR	
7/2019	RJP	KEK	MJD	

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	
7/2019	

PREPARED FOR

PennEast
PIPELINE

PREPARED BY

M M
MOTT
MACDONALD

111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN AR-106		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-A-027	0